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FINAL SITE MANAGEMENT PLAN FISCAL YEARS 2008 THROUGH 2012 PETROLEUM, OIL AND LUBICANT SITES NAS OCEANA VA

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CH2M HILL

Final

Site Management Plan
Fiscal Year 2008-2012

Petroleum, Oil, and Lubricant Sites

Contract Task Order 104

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Acronyms and Abbreviations

AFVR	aggressive fluid/vapor recovery
APH	absorbed-phase hydrocarbons
AST	aboveground storage tank
AVGAS	aviation fuel
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylene
CAP	Corrective Action Plan
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CIA	Controlled Industrial Area
CFR	Code of Federal Regulations
cm/sec	centimeters per second
CO_2	carbon dioxide
COD	chemical oxidant demand
DFM	diesel fuel marine
DO	dissolved oxygen (DO)
DRO	diesel range organics
ER,N	Environmental Restoration, Navy
FISC	Fleet Industrial Supply Center
FOR	fuel oil reclaimed
ft	foot, feet
FY	Fiscal Year
GCS	Groundwater Characterization Study
HSWA	Hazardous and Solid Waste Amendments
IR	Installation Restoration
LUST	Leaking Underground Storage Tank
µg/L	micrograms per liter
MCL	maximum contaminant level
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MIDLANT	Mid-Atlantic
MTBE	methyl tertiary-butyl ether
NAB	Naval Amphibious Base
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
NCDENR	North Carolina Department of Environment and Natural Resources
NEX	Navy Exchange

NFA	no further action
NNSY	Norfolk Naval Shipyard
NPDES	National Pollution Discharge Elimination System
NSA	Naval Support Activity
NSFO	Navy Special Fuel Oil
NSN	Naval Station Norfolk
NW	Northwest
ODCP	Oil Discharge Contingency Plan
ORC	oxygen reducing compound
OSHA	Occupational Safety & Health Administration
OWS	oil/water separator
PC#	Pollution Control Number
PID	photoionization detector
POL	petroleum, oil, lubricant
RBC	risk based concentration
RCRA	Resource Conservation and Recovery Act
RDF	Refuse Derived Fuel
SARA	Superfund Amendments Reauthorization Act
SCAPS	Site Characterization Analysis and Penetrometer System
SCR	Site Characterization Report
SI	Site Investigation
SJCA	St. Juliens Creek Annex
SMP	Site Management Plan
SPCC	Spill Control and Countermeasures
SPSA	Southeastern Public Service Authority
SVOC	semivolatile organic compound
SWMU	Solid Waste Management Unit
TOX	total organic halogens
TPH	Total Petroleum Hydrocarbons
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VDEQ	Virginia Department of Environmental Quality
VE	vapor extraction
VOC	volatile organic compound
VPDES	Virginia Pollutant Discharge Elimination System

SECTION 1

Introduction

This document presents the Site Management Plan (SMP) for Naval Facilities Mid-Atlantic's (NAVFAC MIDLANT's) active petroleum, oil, and lubricant (POL) sites for fiscal years (FYs) 2008–2012. The SMP is intended to facilitate progression of the POL sites through the Virginia Department of Environmental Quality (VDEQ) and the North Carolina Department of Environment and Natural Resources (NCDENR) regulatory programs. A total of 35 active sites are located at the following facilities: Naval Amphibious Base Little Creek (one site), Northwest Annex (one site), St. Juliens Creek Annex (one site), Norfolk Naval Shipyard (two sites), Craney Island (seven sites), Naval Station Norfolk (10 sites), and Naval Air Station Oceana (13 sites).

1.1 Purpose

The purpose of the SMP is to provide a management tool in the planning, scheduling, and establishment of priorities for NAVFAC MIDLANT's active POL sites. The SMP provides brief facility and site descriptions, summaries of previous investigations and corrective actions, identification of proposed or planned corrective actions, and recommendations to optimize the recovery efforts. The prioritization of proposed or planned corrective actions and optimization recommendations are based on two factors:

- The Navy and VDEQ's relative ranking of the sites with regard to the potential risks the sites may pose to human health and the environment (i.e., address high-risk sites first)
- Goals set by the Navy, VDEQ, and NCDENR to meet requirements of the state, the Navy, and the public

This document is the second SMP written for NAVFAC MIDLANT's active POL sites. The SMP is intended to be a working document updated yearly to maintain current documentation and summaries of environmental actions at POL sites.

1.2 Report Organization

This SMP consists of the following sections.

- **Section 1** establishes the purpose of the SMP.
- **Section 2** presents applicable federal and state regulatory background information.
- **Section 3** presents a brief description of the naval facilities containing POL sites
- **Section 4** presents a brief description of each POL Site, proposed activities in FY 2008, and recommendations to optimize recovery efforts and expedite case closure

- **Section 5** presents information regarding Navy Land Use Planning
- **Section 6** presents References**.**

SECTION 2

Regulatory Background

2.1 Federal Underground and Above Ground Storage Tank Regulations

2.1.1 Federal Underground Storage Tank Regulations

In 1984, Congress passed the Hazardous and Solid Waste Amendments (HSWA) to the Resource Conservation and Recovery Act (RCRA). Title IV of the Amendments added Subtitle I (sections 9001 through 9010) which specifically provided for regulation of underground storage tank (UST) systems, creating the Federal UST Program. In 1986, Congress passed the Superfund Amendments Reauthorization Act (SARA) which amended Subtitle I to provide federal funds for corrective actions on petroleum releases from UST systems. This amendment established the Leaking Underground Storage Tank (LUST) Trust Fund. On September 23, 1988, the United States Environmental Protection Agency (USEPA) published the final technical regulations for tanks. On October 26, 1988, the USEPA published the financial responsibility regulations, indicating the minimum levels of insurance UST owners and operators need to ensure in order to take corrective action in response to any leaks that occur from their UST systems and compensate anyone who is harmed by a release.

One of the provisions of RCRA Subtitle I is the establishment of state UST oversight programs to assist UST owners in upgrading existing tanks and remediating LUST sites. Most states, including Virginia and North Carolina, have established state LUST oversight programs, which satisfy federal requirements for tank owners and operators with UST upgrading and LUST remediation problems.

2.1.2 Federal Aboveground Storage Tank Regulations

No equivalent of the Federal UST Program for aboveground storage tanks (ASTs) is in existence. However, the Oil Pollution and Prevention regulation, Title 40, of the Code of Federal Regulations, Part 112, (40 CFR 112), now referred to as the Spill Control and Countermeasures (SPCC) Rule, includes information on potential contaminant release sources, including ASTs. This regulation defines monitoring requirements and spill prevention procedures for ASTs and allows for USEPA inspections of AST sites. Additionally, the SPCC Rule requires storage tank owners to report any releases of petroleum hydrocarbons from ASTs to state officials and requires owners to be responsible for cleanup of releases from their ASTs. Unlike the UST regulatory guidance, the SPCC Rule does not provide a specific process for clean up of releases.

2.2 State Underground and Aboveground Storage Tank Regulations

Thirty-four (34) of the active POL sites covered in this SMP fall under VDEQ regulatory control and one UST site (Tank MT-3) falls under NCDENR regulatory control. **Table 2-1** provides a list of all tanks at each facility and the current status from NAVFAC MIDLANT's tank data base.

The VDEQ is responsible for administering the UST Technical and Financial Responsibility Regulatory Programs, the AST Regulatory Program, and the Fund Reimbursement Program for sites located in Virginia. In 2001, VDEQ issued the Third Edition of the Storage Tank Program Technical Manual. This manual is a guidance document for addressing releases of petroleum and regulated substances from storage tanks. The manual provides specific guidance on the Release Response and Corrective Action Process (see Section 2.2.1) for USTs containing petroleum or oil and monitoring and registration requirements for ASTs. The Facility and AST Regulation (see Section 2.2.2) provides additional information specific to ASTs, including closure, pollution prevention requirements, groundwater characterization study and monitoring requirements, and oil discharge contingency plan requirements (VDEQ, 2001).

The North Carolina regulatory process for USTs is included in *Guidelines for Assessment and Corrective Action, North Carolina UST Section* (NCDENR, 2001). The North Carolina Guidelines are very similar to the *Virginia Storage Tank Program Technical Manual* (VDEQ, 2001). However, no site assessment and risk evaluation are required for North Carolina sites listed prior to 1998 and cleanup levels are based on North Carolina 2L Standards (NC 2Ls) (2005).

2.2.1 Release Response and Corrective Action Process for Underground Storage Tanks

The Release Response and Corrective Action Process (VDEQ, 2001) for USTs comprises a set of procedures for managing releases of petroleum and other regulated substances from the time of the release to a time when it is determined no further action (NFA) is necessary to address the release. These procedures are intended to ensure protection of human health and the environment to the greatest extent practicable. Documented releases have occurred at USTs included in Section 4 of this SMP and the Navy is following all state requirements to achieve site closure.

The basic elements of the Release Response and Corrective Action Process include:

- Initial response
- Initial abatement
- Site characterization
- Corrective Action Plan (CAP) development
- Public notice
- CAP implementation
- Site closure

A brief description of each element is provided in the following subsections.

Initial Response

Initial response actions involve notification of the confirmed release to the VDEQ within 24 hours, investigating the release to prevent further release of petroleum into the environment, identifying potential fire, explosion, and vapor hazards as a result of the release, and addressing the identified potential hazards.

Initial Abatement

Initial abatement involves actions taken to mitigate hazards associated with the petroleum release and prevent further release of petroleum. The tank owner or operator is required to submit an Initial Abatement Report within 20 days of confirming the release unless otherwise determined by the VDEQ Case Manager.

Site Characterization

Site characterization entails activities performed to support a site assessment, risk assessment, and remediation assessment. A site assessment evaluates site conditions and the nature and extent of contamination on the site. The risk assessment evaluates potential risk to human and environmental receptors posed by the release. The remediation assessment evaluates the potential for remediation at the site and the applicability of potentially appropriate remedial technologies. The results are compiled in a Site Characterization Report (SCR) submitted to VDEQ for review and comment.

CAP Development or Phase II Abatement

Once the Site Characterization is completed, POL sites either proceed into a Phase II Abatement process or a CAP is developed. The Phase II Abatement process is typically used when proposed remedial technologies are simple, the time required to complete the corrective action is relatively short, and little VDEQ oversight is needed once the activity has been approved. Examples of Phase II Abatement activities include tank removal, excavation, and offsite disposal of contaminated soils.

A CAP must be completed for all corrective actions at UST sites that are more complex in nature or involve the remediation of contaminated groundwater. A CAP includes a detailed description of the proposed corrective action, projected remedial endpoints, a schedule of implementation, and operational and post-operational monitoring schedules. The remedial endpoints are usually defined in the CAP and are developed based on actual risks to current receptors and known future receptors. The limits of technologies available to remediate petroleum contaminated sites are also considered. If no risks are identified based on existing land use at a site, the owner or operator of the POL site may consider potential future risks under different land use scenarios. In addition to risk based endpoints, additional endpoints may be selected based upon guidelines included in the Storage Tank Program Technical Manual. The manual states:

> *Free product thicknesses should be 0.01 feet or less unless continued recovery efforts cannot obtain this minimum and more aggressive recovery methods are not warranted based upon the lack of receptors or other considerations including the lack of product mobility.*

Consequently the free product endpoints established for most sites is less than 0.01 ft of product thickness.

Once a CAP is approved by the VDEQ, a Corrective Action Permit must be obtained from VDEQ in order to implement the CAP. A VDEQ-approved CAP or closure request does not remove liability from the responsible person for damages caused by a release should land use or site conditions change.

Public Notice

Section 300 of the UST Technical Regulation requires UST owners or operators to provide notice to the public for all POL releases for which a CAP has been completed. This notice may include, but is not limited to, publication in local newspapers, block advertisements, publication in a state register, letters to individuals, or personal contacts. Notice must reach all members of the public directly affected by the release and/or planned corrective action. Additionally, the public must be notified if implementation of the approved CAP is ineffective in achieving remedial endpoints and termination of the CAP is being considered by VDEQ.

CAP Implementation

The CAP implementation phase of the process involves accomplishment of the corrective action specified in the CAP. Throughout the implementation process, the progress of the corrective action is continually monitored in order to determine whether or not risks are adequately addressed and the corrective action is likely to meet remedial endpoints. If the corrective action does not appear to be reducing site risks, alternative corrective actions are considered.

Site Closure

Once a site no longer presents an unacceptable risk to human and ecological receptors and/or remedial endpoints have been achieved, the site may be closed under the VDEQ through issuance and approval of a Site Closure Report. Site monitoring wells for closed sites must be abandoned in accordance with Section 3.11 of the State Health Department Well Abandonment Regulations or other requirements established by the VDEQ.

2.2.2 AST Regulatory Requirements

The Facility and AST Regulation (VDEQ, 2001) provides requirements for AST owners including registration, notification, pollution prevention, oil discharge contingency planning, monitoring, and closure procedures. The regulation outlines the requirements for ASTs based on storage capacities of 660 gallons or greater, 25,000 gallons or greater, and 1,000,000 million gallons or greater. All of the facilities included in this SMP have an aggregate above ground storage capacity of greater than 25,000 gallons. Three of the facilities (Craney Island, Naval Station Norfolk, and Naval Air Station Oceana) have an aggregate above ground storage capacity of one million gallons or greater. Documented releases have occurred at ASTs included in Section 3 of this SMP and the Navy is following all state requirements to move these sites to closure. The requirements for ASTs are as follows;

Owners of ASTs with an aboveground storage capacity of 660 gallons or more and owners of facilities with an aggregate aboveground storage capacity of 1,320 gallons or more are required to register the tank(s) with the VDEQ or with the local director of emergency services, notify the VDEQ of any upgrades, repairs, or replacements, and apply for closure

prior to removing the AST. A closure inspection must be completed by the VDEQ or local building official. If contaminated soils, contaminated groundwater, free product as a liquid or vapor, or other evidence of release are observed at any time during the tanks usage, the owner is responsible for reporting the release to local officials or the VDEQ.

Facilities with individual tank or an aggregate storage capacity of greater than 25,000 gallons must have in place pollution prevention procedures including a tank inspection and leak detection program, a training program for onsite personnel, and safe fill and shutdown operations. Additionally, tanks with a storage capacity of greater than 25,000 gallons must have secondary containment in place. Tank owners must submit a Oil Discharge Contingency Plan (ODCP) including facility information, worst case discharge details, identification of a contractor or other private means of cleaning up a worst case discharge, inventory of facility containment equipment, at risk natural resources, inventory control procedures, leak detection system details, and system training and maintenance procedures.

Facilities with an aggregate storage capacity of 1,000,000 gallons or greater must complete a Groundwater Characterization Study (GCS). The purpose of the GCS is to define baseline conditions and hydrogeologic conditions at the site. Additionally, monthly gauging and inspection, monitoring of well headspace, quarterly free product and vapor monitoring, and quarterly groundwater sampling and analysis for benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons (TPH) must be conducted to determine the presence of petroleum or byproduct contamination. Reporting should be submitted VDEQ.

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
CI-	CI-102-UST-01	5019380	15100		Concrete	2,100,000		Fuel Oil	3/31/1942		Closed in Ground			
CI-	CI-103-UST-01	5019380	15100		Concrete	2,100,000		Fuel Oil	3/31/1942		Closed in Ground			
CI-	CI-104-UST-01	5019380	15100		Concrete	2,100,000		Fuel Oil	3/31/1942		Closed in Ground			
CI-	CI-105-UST-01	5019380	15100		Concrete	2,100,000		Fuel Oil	3/31/1942		Closed in Ground			
CI-	CI-106-UST-01	5019380	15100		Unknownnown	2,100,000		Diesel	3/31/1942		Closed in Ground			
CI-	CI-107-UST-01	5019380	15100		Concrete	2,100,000		Diesel	3/31/1942		Closed in Ground			
CI-	CI-108-UST-01	5019380	15100		shown by state as concrete	2,100,000		Diesel	3/31/1942	1/1/1978	Closed in Ground	CLOSED IN GROUND		1/1/1978
CI-	CI-109-UST-01	5019380	15100		Concrete	2,100,000		Diesel	3/31/1942		Closed in Ground			
CI-1-19 AST Tank Farm	CI-10-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			
CI-	CI-110-UST-01	5019380	15100		Concrete	2,100,000		Diesel	3/31/1942		Closed in Ground			
CI-	CI-111-UST-01	5019380	15100		Concrete	2,100,000		Diesel	3/31/1942		Closed in Ground			
CI-	CI-112-UST-01	5019380	15100		Concrete	2,100,000		Diesel	3/31/1942		Closed in Ground			
CI-	CI-113-UST-01	5019380	15100		Concrete	2,100,000		Diesel	3/31/1942		Closed in Ground			
CI-	CI-114-UST-01	5019380	15100		Concrete	2,100,000		Diesel	3/31/1942		Closed in Ground			
CI-	CI-115-UST-01	5019380	15100		Concrete	2,100,000		Diesel	3/31/1942		Closed in Ground			
CI-	CI-116-UST-01	5019380	15100		shown by state as concrete	2,100,000		Diesel	3/31/1942	6/1/1985	Closed in Ground	CLOSED IN GROUND		6/1/1985
CI-	CI-117-UST-01	5019380	15100		shown by state as concrete	2,100,000		Diesel	3/31/1942	6/1/1985	Closed in Ground	CLOSED IN GROUND		6/1/1985
CI-	CI-118-UST-01	5019380	15100		shown by state as concrete	2,100,000		Diesel	3/31/1942	6/1/1985	Closed in Ground	CLOSED IN GROUND		6/1/1985
CI-	CI-119-UST-01	5019380	15100		shown by state as concrete	2,100,000		Diesel	3/31/1942	6/1/1985	Closed in Ground	CLOSED IN GROUND		6/1/1985
CI-1-19 AST Tank Farm	CI-11-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			
CI-	CI-120-UST-01	5019380	15100		shown by state as concrete	1,200,000		Diesel	3/31/1942	6/1/1985	Closed in Ground	CLOSED IN GROUND		6/1/1985
CI-	CI-121-UST-01	5019380	15100		shown by state as concrete	2,100,000		Diesel	3/31/1942	6/1/1985	Closed in Ground	CLOSED IN GROUND		6/1/1985
CI-	CI-122-UST-01	5019380	15100		shown by state as concrete	2,100,000		Diesel	3/31/1942	6/1/1985	Closed in Ground	CLOSED IN GROUND		6/1/1985
CI-123	CI-123-UST-01	5019380	15100	TRAGEN (Contractor)	Concrete	2,100,000	Bulk Storage	JP-5	1/1/1942		Closed in Ground	Currently in use		7/1/2001
CI-124	CI-124-UST-01	5019380	15100	TRAGEN (Contractor)	Concrete	2,100,000	Bulk Storage	JP-5	1/1/1942		Closed in Ground	Currently in use		7/1/2001
CI-125	CI-125-UST-01	5019380	15100	TRAGEN (Contractor)	Concrete	2,100,000	Bulk Storage	JP-5	1/1/1942		Removed from Ground	Currently in use		
CI-126	CI-126-UST-01	5019380	15100	TRAGEN (Contractor)	Concrete	2,100,000	Bulk Storage	JP-5	1/1/1942		Closed in Ground	Currently in use		7/1/2001
CI-127	CI-127-UST-01	5019380	15100	Fleet and Industrial Supply Center	Concrete	2,100,000	Bulk Storage	JP-5	1/1/1942		Closed in Ground	Currently in use		7/1/2001
CI-128	CI-128-UST-01	5019380	15100	TRAGEN (Contractor)	Concrete	2,100,000	Bulk Storage	JP-5	1/1/1942		Closed in Ground	Currently in use		7/1/2001
CI-1-19 AST Tank Farm	CI-12-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			
CI-135	CI-135-AST-01	5019380	15100		Double Walled Steel	350	Remediation System Recovered Oil Storage	Recovered Oil			Active			
CI-1-19 AST Tank Farm	CI-13-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			
CI-1-19 AST Tank Farm	CI-14-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			
CI-1-19 AST Tank Farm	CI-15-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			
CI-458	CI-161-AST-01	5019380	15100	TRAGEN (Contractor)	Double Walled Steel in Concrete	4,000	Product Dispenser	Gasoline	1/1/1998		Active			
CI-458	CI-161-AST-02	5019380	15100	TRAGEN (Contractor)	Double Walled Steel in Concrete	4,000	Product Dispenser	Diesel	1/1/1998		Active			
CI-1-19 AST Tank Farm	CI-16-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			
CI-1-19 AST Tank Farm	CI-17-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	Fuel Oil Reclaimed	1/1/1918		Active			
CI-1-19 AST Tank Farm	CI-18-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	Fuel Oil Reclaimed	1/1/1918		Active			
CI-1-19 AST Tank Farm	CI-19-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	Fuel Oil Reclaimed	1/1/1918		Active			
CI-1-19 AST Tank Farm	CI-1-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			
CI-20	CI-20-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	Oily Water	1/1/1918		Removed			
CI-272	CI-272-UST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	JP-5	1/1/1953		Closed in Ground	CURRENTLY IN USE		1/1/2001
CI-273	CI-273-UST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	JP-5	1/1/1953		Closed in Ground	CURRENTLY IN USE		1/1/2001
CI-274	CI-274-UST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	JP-5	1/1/1953		Closed in Ground	CURRENTLY IN USE		1/1/2001
CI-275	CI-275-UST-01	5019380	15100	TRAGEN (Contractor)	Concrete	2,100,000	Bulk Storage	JP-5	1/1/1953		Closed in Ground	CURRENTLY IN USE		1/1/2001
CI-276	CI-276-UST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	JP-5	1/1/1953		Closed in Ground	CURRENTLY IN USE		7/1/2001
CI-277	CI-277-UST-01	5019380	15100	TRAGEN (Contractor)	Concrete	2,100,000	Bulk Storage	JP-5	1/1/1953		Closed in Ground	CURRENTLY IN USE		1/1/2001
CI-278	CI-278-UST-01	5019380	15100	TRAGEN (Contractor)	Concrete	2,100,000	Bulk Storage	JP-5	1/1/1953		Removed from Ground	CURRENTLY IN USE		
CI-288	CI-288-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	1,000	Heating System Supply	No. 2 Fuel Oil	1/1/1996		Active			
CI-288	CI-288-AST-02	0	0	Fire station POC Johnny Chandler (4-1138x3008)	Single Walled Steel	500	Emergency Generator Base Tank	Diesel			Active			
CI-289	CI-289-AST-01	5019380	15100	Regional Fire Department	Double Walled Steel in Concrete	250	Heating System Supply	Diesel			Active			
CI-289	CI-289-AST-02	5019380	15100	Regional Fire Department		250	Emergency Generator Base Tank	Diesel	1/1/2003		Active			
CI-1-19 AST Tank Farm	CI-2-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			
CI-	CI-2T-AST-01	5019380	15100		FRP	7,500	Used Oil Storage from OWS	Oily Water			POS			
CI-1-19 AST Tank Farm	CI-3-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			
CI-40-43 AST Tank Farm	CI-40-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	210,000	Bulk Storage	JP-5	1/1/1943		Active			
CI-41	CI-41-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	210,000	Bulk Storage	JP-5	1/1/1943	7/20/1999	Removed			7/20/1999
CI-40-43 AST Tank Farm	CI-42-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	210,000	Bulk Storage	JP-5	1/1/1943		Active			
CI-40-43 AST Tank Farm	CI-43-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	210,000	Bulk Storage	JP-5	1/1/1943		Active			
CI-44	CI-44-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	210,000	Bulk Storage	JP-5	1/1/1943	7/20/1999	Removed			7/20/1999
CI-450	CI-450-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	1,500,000	Oily Wastewater Storage	Oily Water	1/1/1979		Active			
CI-451	CI-451-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	1,500,000	Oily Wastewater Storage	Oily Water	1/1/1979		Active			
CI-453	CI-453-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	250	Heating System Supply	No. 2 Fuel Oil			Active	NONE		
CI-453	CI-453-AST-02	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	250	Heating System Supply	No. 2 Fuel Oil		5/1/2003	Removed	NONE	5/1/2003	5/1/2003
CI-453	CI-453-AST-03	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	250	Heating System Supply	No. 2 Fuel Oil		5/1/2003	Removed	NONE	5/1/2003	5/1/2003
CI-453	CI-453-AST-04	5019380	15100	Trajen	Double Walled Steel	1,000	Heating System Supply	Diesel	5/1/2003		Active			
CI-45	CI-45-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	210,000	Bulk Storage	JP-5	1/1/1943	7/20/1999	Removed			7/20/1999
CI-	CI-46-AST-01	5019380	15100		Unknownnown	210,000		JET FUEL	1/1/1943		Removed			
CI-472	CI-472-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	6,300,000	Bulk Storage	DFM?	1/3/1995		Active			
CI-473	CI-473-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	6,300,000	Bulk Storage	DFM?	1/3/1995		Active			
CI-474	CI-474-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	6,300,000	Bulk Storage	JP-5?	1/3/1995		Active			
CI-475	CI-475-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	6,300,000	Bulk Storage	JP-5?	1/3/1995		Active			
CI-476	CI-476-AST-01	5019380	15100	TRAGEN	Single Walled Steel	6,300,000	Bulk Storage	JP-5	1/1/1999		Active			
CI-477	CI-477-AST-01	5019380	15100	TRAGEN	Single Walled Steel	6,300,000	Bulk Storage	JP-5	1/1/1999		Active			
CI-478	CI-478-AST-01	5019380	15100	TRAGEN	Single Walled Steel	6,300,000	Bulk Storage	JP-5	1/1/1999		Active			
CI-479	CI-479-AST-01	5019380	15100	TRAGEN	Single Walled Steel	6,300,000	Bulk Storage	JP-5	1/1/1999		Active			
CI-	CI-47-AST-01	5019380	15100		Unknownnown	210,000		JET FUEL	1/1/1943		Removed			
CI-	CI-48-AST-01	5019380	15100		Unknownnown	210,000		JET FUEL	1/1/1943		Removed			
CI-	CI-49-AST-01	5019380	15100		Unknownnown	210,000		JET FUEL	1/1/1943		Removed			
CI-1-19 AST Tank Farm	CI-4-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
CI-	CI-4T-AST-01	5019380	15100		FRP	7,500	Used Oil Storage from OWS	Used Oil			POS			
CI-	CI-50-AST-01	5019380	15100		Unknownnown	210,000		JET FUEL	1/1/1943		Removed			
CI-1-19 AST Tank Farm	CI-5-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			
CI-60 FOR Facility	CI-60-AST-00	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	126,000	Fuel Oil Reclamation	Fuel Oil Reclaimed	1/1/1943		Removed			1/1/1999
CI-60 FOR Facility	CI-60-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	101,000	Fuel Oil Reclamation	Fuel Oil Reclaimed	1/1/1999		Active			
CI-60 FOR Facility	CI-61-AST-00	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	126,000	Fuel Oil Reclamation	Fuel Oil Reclaimed	1/1/1943		Removed			1/1/1999
CI-60 FOR Facility	CI-61-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	101,000	Fuel Oil Reclamation	Fuel Oil Reclaimed	1/1/1999		Active			
CI-60 FOR Facility	CI-63-AST-01	5019380	15100	TRAGEN (Contractor)	Concrete	588,000	Oil/Water Seperator	Oily Water	1/1/1943		Removed			
CI-60 FOR Facility	CI-64-AST-01	5019380	15100	TRAGEN (Contractor)	Concrete	588,000	Oil/Water Seperator	Oily Water	1/1/1943		Removed			
CI-1-19 AST Tank Farm	CI-6-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			
CI-72	CI-72-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	275	Emergency Generator Supply	No. 2 Fuel Oil	1/1/1996		Active	NONE		
CI-72	CI-72-AST-02	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	275	Emergency Generator Supply	No. 2 Fuel Oil	1/1/1996		Active	NONE		
CI-1-19 AST Tank Farm	CI-7-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			
CI-82	CI-82-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	1,000	Heating System Supply	No. 2 Fuel Oil	1/1/1960		Active			
CI-82	CI-86-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	1,000	Heating System Supply	No. 2 Fuel Oil	1/1/1960		Active			
CI-1-19 AST Tank Farm	CI-8-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			
CI-1-19 AST Tank Farm	CI-9-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	2,100,000	Bulk Storage	DFM	1/1/1918		Active			
CI-FSII5	CI-FSII5-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	15,000	Bulk Storage	Ice Inhibitor	1/1/1994		Active			
CI-FSII6	CI-FSII6-AST-01	5019380	15100	TRAGEN (Contractor)	Single Walled Steel	15,000	Bulk Storage	Ice Inhibitor	1/1/1994		Active			
CI-458	CI-GS-UST-01	5019380	15100	TRAGEN (Contractor)	FRP	10,000	Fuel dispensing	Gasoline	1/1/1984		Removed from Ground	CURRENTLY IN USE		
CI-458	CI-GS-UST-02	5019380	15100	TRAGEN (Contractor)	FRP	10,000	Vehicle fueling	Diesel	1/1/1984		Removed from Ground	CURRENTLY IN USE		
CI-OWWO PLANT	CI-OWWO-AST-01	5019380	15100	Navfac Mid-Atlantic, Environmental	Double Walled Steel in Concrete	12,000	Used oil storage	Used Oil	10/22/1997		Active			
CI-OWWO PLANT	CI-OWWO-AST-02	5019380	15100	Navfac Mid-Atlantic, Environmental	Double Walled Steel in Concrete	12,000	Used oil storage	Used Oil	10/22/1997		Active			
CI-OWWO PLANT	CI-OWWO-AST-03	5019380	15100	Navfac Mid-Atlantic, Environmental	Double Walled Steel in Concrete	12,000	Used oil storage	Used Oil	10/22/1997		Active			
CI-OWWO PLANT	CI-OWWO-AST-04	5019380	15100	Navfac Mid-Atlantic, Environmental	Double Walled Steel	900	Heating System Supply	No. 2 Fuel Oil	10/22/1997		Active			
CI-T1	CI-T1-UST-01	5019380	15100		Concrete	71,000		Unknownnown	4/1/1979		CURRENTLY IN USE			
CI-TR1	CI-TR1-UST-01	5019380	15100	TRAGEN (Contractor)	FRP	8,000	Emergency Spill Containment	Used Oil	1/1/1983		Active	CURRENTLY IN USE		
CI-TR2	CI-TR2-UST-01	5019380	15100		FRP	8,000		Used Oil	4/1/1983		CURRENTLY IN USE	CURRENTLY IN USE		
CI-TR2	CI-TR2-UST-02	5019380	15100	TRAGEN (Contractor)	FRP	10,000	Emergency Spill Containment	Used Oil	1/1/2000		Active			
DC-DARE	DC-DARE-AST-01A			Navy Dare Bombing Range	Double Walled Steel	500	Product Dispenser	Diesel	1/1/1997		Active			
DC-DARE	DC-DARE-AST-01B			Navy Dare Bombing Range	Double Walled Steel	500	Emergency Generator Supply	Diesel	1/1/1997		Active			
DC-DARE	DC-DARE-AST-02			Navy Dare Bombing Range	Double Walled Steel in Concrete	1,000	Product Dispenser	Gasoline	1/1/1994		Removed			
DC-DARE	DC-DARE-AST-03			Navy Dare Bombing Range	Double Walled Steel in Concrete	250	Product Dispenser	Gasoline	6/18/2003		Active			
LC-1126	LC-1126-AST-01	5006881	37881	Fleet Information Warfare Center	Double Bottomed Steel	100	Emergency Generator Supply	Diesel			Active	NONE		
LC-1130	LC-1130-AST-01	5006881	37881		Single Walled Steel	500	EQUIPMENT FUELING	Diesel			REMOVED	NONE		
LC-1130	LC-1130-AST-02	5006881	37881		Single Walled Steel	275	USED OIL STORAGE	Used Oil			REMOVED	NONE		
LC-114	LC-114-AST-01	5006881	37881	Morale Welfare & Recreation - Maintenance	Double Walled Steel in Concrete	250	Product Dispenser	Diesel			Removed			
LC-118	LC-118-AST-01	5006881	37881	Commander Special Boat Squadron Two	Double Bottomed Steel	500	Used Oil Storage	Used Oil			Active	NONE		
LC-1231	LC-1231-AST-01	5006881	37881			500	Unknownnown				Removed			
LC-1231	LC-1231-UST-03	5006881	37881		FRP	550	Unknownnown	Used Oil	10/23/1982		POS	CURRENTLY IN USE		12/1/1990
LC-1231	LC-1231-UST-04	5006881	37881		FRP	550	Unknownnown	Used Oil	10/23/1982	3/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND		3/1/1991
LC-	LC-124-UST-01	5006881	37881		Double Walled FRP	550		Used Oil	1/1/1988	1/1/1994	REMOVED FROM GROU	REMOVED FROM GROUND	5/31/1994	4/26/1994
LC-1265	LC-1265-AST-05	5006881	37881	Fleet Information Warfare Center	Double Walled Steel in Concrete	250	Product Dispenser	Diesel	9/22/1999		Removed	Change in Service		
LC-1265	LC-1265-AST-06	5006881	37881	Navy and Marine Corps Internet	Closed Top Diked Steel	1,250	Emergency Generator Base Tank	Diesel	12/1/2002		Active			
LC-1265	LC-1265-UST-01	5006881	37881	Fleet Information Warfare Center	Double Walled FRP	4,000	Engine Test Cell Supply	Diesel	10/1/1994		Removed from Ground	CURRENTLY IN USE		11/1/2002
LC-1265	LC-1265-UST-02	5006881	37881	Fleet Information Warfare Center	Double Walled FRP	4,000	Used Oil Storage	Used Oil	10/1/1994		Removed from Ground	CURRENTLY IN USE		
LC-1265	LC-1265-UST-03	5006881	37881	Fleet Information Warfare Center	Unknownnown	1,000	Unknownnown	Used Oil	10/23/1984	1/1/1991	POS	CURRENTLY IN USE		1/1/1991
LC-1265	LC-1265-UST-04	5006881	37881	Fleet Information Warfare Center	Unknownnown	1,000	Unknownnown			1/1/1991	REMOVED FROM GROU	NONE		1/1/1991
LC-1265	LC-1265-UST-05	5006881	37881	Fleet Information Warfare Center	FRP	4,000	Unknownnown	Diesel	10/23/1984	7/18/1994	REMOVED FROM GROU	REMOVED FROM GROUND	9/23/1994	7/18/1994
LC-1265	LC-1265-UST-06	5006881	37881	Fleet Information Warfare Center	Unknownnown	550	Unknownnown	Used Oil	10/23/1984	7/12/1994	REMOVED FROM GROU	REMOVED FROM GROUND	9/23/1994	7/12/1994
LC-1501	LC-1501-AST-01	5006881	37881	Navfac Mid-Atlantic, Utilities - Sewage Pump Station	Single Walled Steel	275	Emergency Generator Supply	Diesel			REMOVED	NONE		
LC-1501	LC-1501-AST-02	5006881	37881	Navfac Mid-Atlantic, Utilities - Sewage Pump Station	Double Walled Steel in Concrete	250	Emergency Generator Supply	Diesel	1/1/1999		Active	NONE		
LC-1516	LC-1516-AST-05	5006881	37881	Morale Welfare & Recreation - Marina	Double Walled Steel	264	Used Oil Storage	Used Oil	1/1/2000		Active			
LC-1516	LC-1516-UST-01	5006881	37881		shown by state as having lined interior	4,000	Fuel supply at Marina	Gasoline	1/1/1980	6/22/1994	REMOVED FROM GROU	REMOVED FROM GROUND	9/20/1994	6/22/1994
LC-1516	LC-1516-UST-02	5006881	37881		shown by state as having lined interior	4,000	Fuel supply at Marina	Gasoline	10/23/1982	6/22/1994	REMOVED FROM GROU	REMOVED FROM GROUND	9/20/1994	6/22/1994
LC-1516	LC-1516-UST-03	5006881	37881	Morale Welfare & Recreation - Marina	Double Walled FRP	6,000	Product Dispenser	Gasoline	10/1/1994		Active	CURRENTLY IN USE		
LC-1516	LC-1516-UST-04	5006881	37881	Morale Welfare & Recreation - Marina	Double Walled FRP	6,000	Product Dispenser	Diesel	10/1/1994		Active	CURRENTLY IN USE		
LC-1518	LC-1518-AST-01	5006881	37881	Navfac Mid-Atlantic, Utilities - Sewage Pump Station	Single Walled Steel	500	Emergency Generator Supply	Diesel			REMOVED	NONE		
LC-1518	LC-1518-AST-02	5006881	37881	Navfac Mid-Atlantic, Utilities - Sewage Pump Station	Double Walled Steel in Concrete	250	Emergency Generator Supply	Diesel	1/1/1999		Active	NONE		
LC-1518	LC-1518-UST-00	5006881	37881	Navfac Mid-Atlantic, Utilities - Sewage Pump Station	Unknownnown	275	Unknownnown	Diesel	10/23/1981	3/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND		3/1/1991
LC-1522	LC-1522-AST-01	5006881	37881		Single Walled Steel	275	EQUIPMENT FUELING	Gasoline			REMOVED	NONE		
LC-1522	LC-1522-AST-02	5006881	37881		Single Walled Steel	275	EQUIPMENT FUELING	Diesel			REMOVED	NONE		
LC-1522	LC-1522-AST-03A	5006881	37881	Assualt Craft Unit Two	Double Walled Steel in Concrete	250	Product Dispenser	Gasoline	9/20/1999		Active	NONE		
LC-1522	LC-1522-AST-03B	5006881	37881	Assualt Craft Unit Two	Double Walled Steel in Concrete	250	Product Dispenser	Diesel	9/20/1999		Active	NONE		
LC-1551	LC-1551-UST-01	5006881	37881	Fleet and Industrial Supply Center	Single Walled Steel	567,000	Bulk Storage	Diesel	4/25/1951		Active	CURRENTLY IN USE		
LC-1558	LC-1558-UST-01	5006881	37881	Integrated Undersea Surveillance System	Double Walled FRP	8,000	Product Dispenser	Norpar	10/1/1994		Active	CURRENTLY IN USE		
LC-1558	LC-1558-UST-02	5006881	37881	Integrated Undersea Surveillance System	Double Walled FRP	8,000	Product Dispenser	Isopar	10/1/1994		Active	CURRENTLY IN USE		
LC-1558	LC-1558-UST-03	5006881	37881	Integrated Undersea Surveillance System	Double Walled FRP	4,000	Used Oil Storage	Used Norpar	10/1/1994		Active	CURRENTLY IN USE		
LC-1558	LC-1558-UST-04	5006881	37881		FRP	8,000	Unknownnown	NORPAR-12	4/24/1985	6/1/1994	Closed in Ground	REMOVED FROM GROUND	7/13/1995	3/10/1995
LC-1558	LC-1558-UST-05	5006881	37881		FRP	8,000	Unknownnown	NORPAR-12	4/24/1985	6/1/1994	Closed in Ground	REMOVED FROM GROUND	7/13/1995	3/10/1995
LC-1558	LC-1558-UST-06	5006881	37881		FRP	4,000	Unknownnown	NORPAR WASTE	4/24/1985	1/1/1995	Closed in Ground	REMOVED FROM GROUND	7/13/1995	3/10/1995
LC-1558	LC-1558-UST-07	5006881	37881	Integrated Undersea Surveillance System	Double Walled FRP	8,000	Product Dispenser	Isopar	7/1/1993		Active	CURRENTLY IN USE		
LC-1609	LC-1609-AST-01	5006881	37881	Navy Regional Fire/Rescue - Fire Station #2	Closed Top Diked Steel	265	Emergency Generator Base Tank	Diesel	1/1/1996		Active			
LC-1612	LC-1612-UST-16	5006881	37881		Unknownnown	10,275	Unknownnown	Gasoline	10/23/1975	11/1/1992	REMOVED FROM GROU	REMOVED FROM GROUND		11/18/1992
LC-1612	LC-1612-UST-17	5006881	37881		FRP	10,275	Unknownnown	Gasoline	10/23/1975	11/1/1992	REMOVED FROM GROU	REMOVED FROM GROUND		11/18/1992
LC-1612	LC-1612-UST-18	5006881	37881		FRP	10,275	Unknownnown	Gasoline	10/23/1975	11/1/1992	REMOVED FROM GROU	REMOVED FROM GROUND		11/18/1992
LC-1612	LC-1612-UST-19	5006881	37881	Navy Exchange - Gas Station	Double Walled FRP	10,000	Product Dispenser	Gasoline	5/21/1992		Active	CURRENTLY IN USE		
LC-1612	LC-1612-UST-20	5006881	37881	Navy Exchange - Gas Station	Double Walled FRP	10,000	Product Dispenser	Gasoline	5/21/1992		Active	CURRENTLY IN USE		
LC-1612	LC-1612-UST-21	5006881	37881	Navy Exchange - Gas Station	Double Walled FRP	10,000	Product Dispenser	Gasoline	5/21/1992		Active	CURRENTLY IN USE		
LC-1618	LC-1618-UST-00	5006881	37881		FRP	4,000	Unknownnown	Diesel	5/1/1989	4/1/1994	REMOVED FROM GROU	REMOVED FROM GROUND	12/21/1994	8/10/1994
LC-1618	LC-1618-UST-01	5006881	37881	Explosive Ordinance Disposal Mobile Unit Two	Double Walled FRP	4,000	Product Dispenser	Diesel	10/1/1994		Active	CURRENTLY IN USE		

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
LC-1619	LC-1619-AST-01	5006881	37881	Explosive Ordinance Disposal Mobile Unit Two	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1998		Active	NONE		
LC-1620	LC-1620-AST-01A	5006881	37881	Explosive Ordinance Disposal Mobile Unit Two	Double Walled Steel in Concrete	250	Product Dispenser	Gasoline	1/1/1998		Active	NONE		
LC-1620	LC-1620-AST-01B	5006881	37881	Explosive Ordinance Disposal Mobile Unit Two	Double Walled Steel in Concrete	250	Product Dispenser	Gasoline/Oil Premix	1/1/1998		Active	NONE		
LC-	LC-1-UST-01	5006881	37881		FRP	10,000		Gasoline	4/1/1976		NONE	CURRENTLY IN USE		
LC-2012	LC-2012-UST-01	5006881	37881		FRP	4,000	Unknownnown	Diesel		6/26/1994	REMOVED FROM GROU	REMOVED FROM GROUND	9/14/1994	7/11/1994
LC-2083	LC-2083-AST-01	5006881	37881	Naval Computer and Telecommunications Area Master Station	Closed Top Diked Steel	55	Emergency Generator Base Tank	Diesel	1/1/2001		Active			
LC-	LC-208-UST-01	5006881	37881		FRP	550		Used Oil	1/1/1983	1/30/1994	REMOVED FROM GROU	REMOVED FROM GROUND		3/17/1994
LC-2115	LC-2115-AST-01	5006881	37881	Navfac Mid-Atlantic, Utilities - Sewage Pump Station	Single Walled Steel	275	Emergency Generator Supply	Diesel			Removed	NONE		
LC-2115	LC-2115-AST-02	5006881	37881	Navfac Mid-Atlantic, Utilities - Sewage Pump Station	Double Walled Steel in Concrete	275	Emergency Generator Supply	Diesel	1/1/2001		Active			
LC-2115	LC-2115-UST-00	5006881	37881	Navfac Mid-Atlantic, Utilities - Sewage Pump Station	Unknownnown	275	Emergency Generator Supply	Diesel	1/1/1982	3/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND		3/1/1991
LC-	LC-214-2-UST	5006881	37881		FRP	550		Used Oil		1/30/1994	REMOVED FROM GROU	REMOVED FROM GROUND		3/16/1994
LC-	LC-300-1-UST	5006881	37881		Unknownnown	0		Diesel		3/1/1988	REMOVED FROM GROU	REMOVED FROM GROUND		3/1/1988
LC-	LC-300-2-UST	5006881	37881		Unknownnown	0		Diesel		3/1/1988	REMOVED FROM GROU	REMOVED FROM GROUND		3/1/1988
LC-	LC-301-3-UST	5006881	37881		Unknownnown	550		Used Oil		5/25/1994	REMOVED FROM GROU	REMOVED FROM GROUND	9/8/1994	5/25/1994
LC-	LC-301-4-UST	5006881	37881		Unknownnown	2,000		Used Oil		6/6/1994	REMOVED FROM GROU	REMOVED FROM GROUND	9/8/1994	6/6/1994
LC-3015	LC-3015-AST-01	5006881	37881	Regional Public Safety - Police Station	Double Walled Steel in Concrete	250	Emergency Generator Supply	Diesel	1/1/1999		Active	NONE		
LC-3015	LC-3015-AST-02	5006881	37881	Police Headquarters	Single Walled Steel	150	Emergency Generator Base Tank	Diesel			Temporarily Out of Use			
LC-3022	LC-3022-AST-01	5006881	37881			275	Unknownnown				Removed			
LC-3022	LC-3022-AST-02	5006881	37881			275	Unknownnown				Removed			
LC-3022	LC-3022-AST-03	5006881	37881	Morale Welfare & Recreation - Boat Rental	Double Walled Steel in Concrete	500	Product Dispenser	Gasoline	1/1/1998		Active	NONE		
LC-	LC-3030A-UST	5006881	37881		Double Walled FRP	600		Used Oil	7/1/1994		Closed in Ground	CLOSED IN GROUND	10/21/1998	9/10/1997
LC-	LC-3033-1-UST	5006881	37881		FRP	550		Used Oil	10/23/1984	7/1/1988	REMOVED FROM GROU	REMOVED FROM GROUND		7/1/1988
LC-	LC-304-1-UST	5006881	37881		FRP	6,000		Diesel	10/23/1982	1/1/1994	REMOVED FROM GROU	REMOVED FROM GROUND		3/22/1994
LC-	LC-304-2-UST	5006881	37881		FRP	6,000		Gasoline	10/23/1982	1/1/1994	REMOVED FROM GROU	REMOVED FROM GROUND		3/22/1994
LC-	LC-3081B-AST-01	5006881	37881	PWC Utilities - Water Pump Station	Single Walled Steel	275	Emergency Water Pump Supply	Diesel			Removed	NONE		
LC-3084	LC-3084-UST-01	5006881	37881	Navy Exchange - Gas Station	Single Walled Steel	12,000	Product Dispenser	Gasoline	4/1/1992		Active	CURRENTLY IN USE		
LC-3084	LC-3084-UST-02	5006881	37881	Navy Exchange - Gas Station	Single Walled Steel	12,000	Product Dispenser	Gasoline	4/1/1992		Active	CURRENTLY IN USE		
LC-3084	LC-3084-UST-03	5006881	37881	Navy Exchange - Gas Station	Single Walled Steel	12,000	Product Dispenser	Gasoline	4/1/1992		Active	CURRENTLY IN USE		
LC-	LC-3105-AST-01	5006881	37881	Fuel Farm	Single Walled Steel	5,500	Bulk Storage	Diesel	1/1/1942		Removed	CURRENTLY IN USE		
LC-	LC-3105-AST-02	5006881	37881	Fuel Farm	Single Walled Steel	5,500	Bulk Storage	Diesel	1/1/1942		Removed	CURRENTLY IN USE		
LC-3105	LC-3105-AST-03	5006881	37881		Unknownnown	250	Unknownnown	Unknownnown			Removed			
LC-3108	LC-3108-UST-05	5006881	37881		FRP	550	Unknownnown	Used Oil	10/23/1986	3/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND		3/1/1991
LC-3110	LC-3110-AST-01A	5006881	37881	Morale Welfare & Recreation - Golf Course	Double Walled Steel in Concrete	500	Product Dispenser	Gasoline	1/1/1998		Active	NONE		
LC-3110	LC-3110-AST-01B	5006881	37881	Morale Welfare & Recreation - Golf Course	Double Walled Steel in Concrete	500	Product Dispenser	Diesel	1/1/1998		Active	NONE		
LC-3110	LC-3110-AST-02	5006881	37881	Morale Welfare & Recreation - Golf Course	Double Walled Steel in Concrete	250	Used Oil Storage	Used Oil	1/1/1998		Active	NONE		
LC-	LC-3142-UST-01	5006881	37881		FRP	550		Used Oil	10/23/1986		REMOVED FROM GROU	CURRENTLY IN USE		2/1/1991
LC-3144	LC-3144-AST-01	5006881	37881	Beachmaster Unit Two		500	Used Oil Storage				Removed			
LC-3144	LC-3144-AST-04	5006881	37881	Beachmaster Unit Two	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1998		Active	NONE		
LC-3150	LC-3150-AST-01	5006881	37881	Naval Computer and Telecommunications Area Master Station	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	5/1/2003		Active			
LC-3150	LC-3150-UST-01	5006881	37881	Naval Computer and Telecommunications Area Master Station	Double Walled FRP	1,000	Emergency Generator Supply	Diesel			Removed from Ground			8/26/2003
LC-3165	LC-3165-AST-01	5006881	37881			500	Emergency Generator Supply				Removed			
LC-3165	LC-3165-AST-03	5006881	37881	Navfac Mid-Atlantic - Offices/Shops	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	1/1/1998		Active	NONE		
LC-	LC-3319-1-UST	5006881	37881		Unknownnown	0		Unknownnown		5/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND		5/1/1990
LC-	LC-3319-2-UST	5006881	37881		Unknownnown	0		Unknownnown		5/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND		5/1/1990
LC-	LC-3319-UST-19	5006881	37881		Unknownnown	1,000		Used Oil			REMOVED FROM GROU	NONE		5/1/1990
LC-	LC-3324-UST-01	5006881	37881		Unknownnown	1,000		PETROLEUM DISTILLATE	1/1/1940	1/1/1945	REMOVED FROM GROU	REMOVED FROM GROUND	8/12/1993	7/16/1993
LC-	LC-3329-UST-01	5006881	37881		Unknownnown	550		Used Oil	1/1/1957	1/1/1962	Closed in Ground	CLOSED IN GROUND		12/23/1991
LC-	LC-3329-UST-02	5006881	37881		Unknownnown	100		Used Oil			REMOVED FROM GROU	NONE		12/31/1991
LC-3400	LC-3400-AST-01	5006881	37881	Navfac Mid-Atlantic, Utilities	Single Walled Steel	275	Emergency Generator Supply	Diesel			Removed	NONE		5/29/2001
LC-3400	LC-3400-AST-02	5006881	37881	Navfac Mid-Atlantic, Utilities - Sewage Pump Station	Double Walled Steel in Concrete	275	Emergency Generator Supply	Diesel	6/13/2001		Active			
LC-	LC-3404-UST-01	5006881	37881		Unknownnown	5,500		Gasoline	4/24/1946	6/1/1970	REMOVED FROM GROU	REMOVED FROM GROUND		5/1/1990
LC-	LC-3404-UST-02	5006881	37881		Unknownnown	5,500		Diesel	4/24/1946	6/1/1970	REMOVED FROM GROU	REMOVED FROM GROUND		5/1/1990
LC-3445	LC-3445-AST-01	5006881	37881	Defense Commissary Agency	Single Walled Steel	150	Emergency Generator Base Tank	Diesel			Active			
LC-3505	LC-3505-AST-02	5006881	37881	Naval Medical Center Portsmouth - Boone Branch Clinic	Closed Top Diked Steel	85	Emergency Generator Base Tank	Diesel	6/1/1995		Active			
LC-3505	LC-3505-UST-00	5006881	37881	Boone Branch Medical Clinic	Unknownnown	280	Unknownnown	Diesel		7/1/1994	REMOVED FROM GROU	REMOVED FROM GROUND	8/29/1994	7/1/1994
LC-3505	LC-3505-UST-01	5006881	37881	Naval Dental Center Mid-Atlantic - Boone Clinic	Double Walled FRP	6,000	Emergency Generator Supply	Diesel	7/1/1994		Active	CURRENTLY IN USE		
LC-3510	LC-3510-UST-01	5006881	37881		Unknownnown	550	Unknownnown	Diesel	1/1/1987	10/1/1993	REMOVED FROM GROU	REMOVED FROM GROUND	12/21/1994	10/14/1994
LC-3511	LC-3511-AST-02	5006881	37881	Expeditionary Warfare Training Group	Single Walled Steel	1,500	Heating System Supply	Diesel			Removed	CURRENTLY IN USE		
LC-3511	LC-3511-AST-03	5006881	37881	Expeditionary Warfare Training Group, Atlantic - Boat Repair	Double Walled Steel in Concrete	1,000	Heating System Supply	No. 2 Fuel Oil	3/1/2000		Active			
LC-3530	LC-3530-AST-01	5006881	37881	Morale Welfare & Recreation - Auto Hobby Shop	Single Walled Steel	500	Used Oil Storage	Used Oil			Removed			
LC-3530	LC-3530-AST-02	5006881	37881	Morale Welfare & Recreation - Auto Hobby Shop	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1998		Active	NONE		
LC-3530	LC-3530-UST-06	5006881	37881		fiberglass shown by state as having lined interior	550	Unknownnown	Unknownnown	10/23/1984	5/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND		5/1/1990
LC-3530	LC-3530-UST-07	5006881	37881		Unknownnown	550	Unknownnown	Used Oil	1/1/1986	3/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND		3/1/1991
LC-3550	LC-3550-AST-01	5006881	37881	Regional Public Safety - Gate 4	Single Walled Steel	115	Emergency Generator Base Tank	Diesel			Active			
LC-3614	LC-3614-AST-01	5006881	37881	Construction Battalion Unit 423	Double Walled Steel in Concrete	500	Product Dispenser	Diesel	5/5/2002		Active			
LC-3614	LC-3614-AST-02	5006881	37881	Construction Battalion Unit 423	Single Walled Steel	250	Heating System Supply	Used Oil			Active			
LC-3614	LC-3614-AST-03	5006881	37881	Construction Battalion Unit 423	Single Walled Steel	65	Product Dispenser	Lube Oil	1/1/2002		Active			
LC-3614	LC-3614-AST-04	5006881	37881	Construction Battalion Unit 423	Single Walled Steel	65	Product Dispenser	Lube Oil	1/1/2002		Active			
LC-3614	LC-3614-AST-05	5006881	37881	Construction Battalion Unit 423	Single Walled Steel	65	Product Dispenser	Lube Oil	1/1/2002		Active			
LC-3614	LC-3614-AST-06	5006881	37881	Construction Battalion Unit 423	Single Walled Steel	65	Product Dispenser	Lube Oil	1/1/2002		Active			
LC-3614	LC-3614-AST-07	5006881	37881	Construction Battalion Unit 423	Single Walled Steel	65	Product Dispenser	Lube Oil	1/1/2002		Active			
LC-3614	LC-3614-AST-08	5006881	37881	Construction Battalion Unit 423	Single Walled Steel	65	Product Dispenser	Lube Oil	1/1/2002		Active			
LC-3614	LC-3614-AST-09	5006881	37881	Construction Battalion Unit 423	Single Walled Steel	275	Bulk Storage	Diesel			Active			
LC-3614	LC-3614-AST-10	5006881	37881	Construction Battalion Unit 423	Single Walled Steel	275	Bulk Storage	Used Oil			Active			
LC-3615	LC-3615-AST-01	5006881	37881		Single Walled Steel	275	USED OIL COLLECTION	Used Oil			REMOVED	NONE		
LC-3615	LC-3615-AST-02	5006881	37881	Navy Exchange - Auto Service Center	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	12/15/1999		Active	NONE		
LC-3615	LC-3615-UST-09	5006881	37881		Unknownnown	10,000	Unknownnown	Gasoline	10/23/1962		REMOVED FROM GROU	CURRENTLY IN USE		12/1/1990
LC-3615	LC-3615-UST-10	5006881	37881		Unknownnown	10,000	Unknownnown	Gasoline	10/23/1962	3/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND		3/1/1991
LC-3615	LC-3615-UST-11	5006881	37881		Unknownnown	10,000	Unknownnown	Gasoline	10/23/1962		REMOVED FROM GROU	CURRENTLY IN USE		3/1/1991
LC-3615	LC-3615-UST-12	5006881	37881		Unknownnown	10,000	Unknownnown	Gasoline	10/23/1962		REMOVED FROM GROU	CURRENTLY IN USE		3/1/1991
LC-3615	LC-3615-UST-13	5006881	37881		Unknownnown	10,000	Unknownnown	Gasoline	10/23/1962	3/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND		3/1/1991

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
LC-3615	LC-3615-UST-14	5006881	37881		FRP	4,000	Unknownnown	Diesel	10/23/1975	3/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND		3/1/1991
LC-3615	LC-3615-UST-20	5006881	37881		Unknownnown	550	Unknownnown	Used Oil	10/23/1962	5/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND		5/1/1990
LC-3661	LC-3661-AST-01	5006881	37881	Navfac Mid-Atlantic, Transportation - Shops	Single Walled Steel	275	Used Oil Storage	Used Oil			Removed	NONE		
LC-3661	LC-3661-AST-03	5006881	37881	Navfac Mid-Atlantic, Transportation - Shops	Single Walled Steel	275	Equipment fueling	Gasoline			REMOVED	NONE		
LC-3661	LC-3661-AST-04	5006881	37881	Navfac Mid-Atlantic, Transportation - Shops	Double Walled Steel in Concrete	275	Used Oil Storage	Used Oil			Active			
LC-3661	LC-3661-UST-02	5006881	37881		Unknownnown	550	Unknownnown	Used Oil		10/6/1989	REMOVED FROM GROU	REMOVED FROM GROUND		10/6/1989
LC-3662	LC-3662-AST-01	5006881	37881	Navfac Mid-Atlantic, Transportation	Double Walled Steel in Concrete	6,000	Product Dispenser	Diesel			Relocated	Temporarily out of use		
LC-3662	LC-3662-AST-02	0	0			3,000	Product Dispenser	Bio-Diesel			Active			
LC-3699	LC-3699-AST-01	5006881	37881		Single Walled Steel	500	EQUIPMENT FUELING	Gasoline			REMOVED	NONE		
LC-3699	LC-3699-AST-02	5006881	37881		Single Walled Steel	500	EQUIPMENT FUELING	Diesel			REMOVED	NONE		
LC-3699	LC-3699-AST-03	5006881	37881	Morale Welfare & Recreation - Golf Course	Double Walled Steel in Concrete	500	Product Dispenser	Gasoline	12/15/1999		Active	None		
LC-3699	LC-3699-UST-00	5006881	37881		shown by state as having lined interior	500	Unknownnown	Gasoline	10/23/1984		REMOVED FROM GROU	CURRENTLY IN USE		6/1/1991
LC-3699	LC-3699-UST-01	5006881	37881		shown by state as having lined interior	500	Unknownnown	Diesel	10/23/1984		REMOVED FROM GROU	CURRENTLY IN USE		6/1/1991
LC-	LC-3801-UST-01	5006881	37881		Unknownnown	2,000		Unknownnown		5/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND		5/1/1990
LC-3806	LC-3806-UST-01	5006881	37881		Unknownnown	200	Unknownnown	HAZARD	10/23/1984	3/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND		3/1/1990
LC-3813	LC-3813-UST-01	5006881	37881		Unknownnown	200	Unknownnown	NAPTHA	1/1/1982	3/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND		3/1/1991
LC-3817	LC-3817-AST-01	5006881	37881	Assualt Craft Unit Four	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
LC-3817	LC-3817-AST-02	5006881	37881	Assualt Craft Unit Four	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
LC-3817	LC-3817-AST-03	5006881	37881	Assualt Craft Unit Four	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
LC-3817	LC-3817-AST-04	5006881	37881	Assualt Craft Unit Four	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
LC-3817	LC-3817-UST-01	5006881	37881	Assualt Craft Unit Four	FRP	550	Unknownnown	Used Oil	5/1/1989		REMOVED FROM GROU	CURRENTLY IN USE		1/1/1992
LC-3817	LC-3817-UST-02	5006881	37881	Assualt Craft Unit Four	FRP	550	Unknownnown	Used Oil	5/1/1989		REMOVED FROM GROU	CURRENTLY IN USE		1/1/1992
LC-3821	LC-3821-AST-03	5006881	37881	Assualt Craft Unit Four	Double Walled Steel in Concrete	2,000	Used Oil Storage	Used JP-5	1/1/1999		Active	CURRENTLY IN USE		
LC-3821	LC-3821-AST-04	5006881	37881	Assualt Craft Unit Four	Double Walled Steel in Concrete	2,000	Used Oil Storage	Bilge Water	1/1/1999		Active	CURRENTLY IN USE		
LC-3823	LC-3823-AST-02	5006881	37881	Assualt Craft Unit Four	Double Walled Steel	2,000	Emergency Generator Supply	Diesel	1/1/1994		Active	CURRENTLY IN USE		
LC-3823	LC-3823-AST-03	5006881	37881	Assualt Craft Unit Four	Single Walled Steel	275	Emergency Generator Day Tank	Diesel			Active			
LC-3823	LC-3823-UST-01	5006881	37881		shown by state as epoxy coated steel	2,000	Unknownnown	Diesel	1/1/1990	5/13/1994	REMOVED FROM GROU	REMOVED FROM GROUND	8/29/1994	5/13/1994
LC-3825	LC-3825-AST-01	5006881	37881	Fleet and Industrial Supply Center - Fuel Farm	Single Walled Steel	75,000	Bulk Storage	JP-5	1/1/1986		Active	Temporarily out of use		
LC-3836	LC-3836-AST-01	5006881	37881	Fleet and Industrial Supply Center - Fuel Farm	Double Walled Steel in Concrete	10,000	Bulk Storage	Gasoline	2/15/2000		Active			
LC-3837	LC-3837-AST-01	5006881	37881	Fleet and Industrial Supply Center - Fuel Farm	Double Walled Steel in Concrete	10,000	Bulk Storage	Diesel	2/15/2000		Active			
LC-3838	LC-3838-AST-01	5006881	37881	Fleet and Industrial Supply Center - Fuel Farm	Double Walled Steel in Concrete	10,000	Bulk Storage	Gasoline	2/15/2000		Active			
LC-3839	LC-3839-AST-01	5006881	37881	Fleet and Industrial Supply Center - Fuel Farm	Double Walled Steel in Concrete	10,000	Bulk Storage	Diesel	2/15/2000		Active			
LC-3845	LC-3845-AST-01	5006881	37881	Fleet and Industrial Supply Center - Fuel Farm	Single Walled Steel	250,000	Bulk Storage	JP-5	1/1/1993		Active	CURRENTLY IN USE		
LC-3846	LC-3846-AST-01	5006881	37881	Fleet and Industrial Supply Center - Fuel Farm	Single Walled Steel	250,000	Bulk Storage	JP-5	1/1/1993		Active	CURRENTLY IN USE		
LC-3848	LC-3848-AST-01	5006881	37881	Navy Regional Fire/Rescue - Fire Station #1	Single Walled Steel	125	Emergency Generator Base Tank	Diesel			Temporarily Out of Use			
LC-3848	LC-3848-AST-02	5006881	37881	Navy Regional Fire/Rescue - Fire Station #1	Single Walled Steel	550	Emergency Generator Supply	Diesel			Active			
LC-3848	LC-3848-AST-03	5006881	37881	Navy Regional Fire/Rescue - Fire Station #1	Double Walled Steel in Concrete	500	Product Dispenser	Diesel	5/1/2003		Active			
LC-3856	LC-3856-UST-01	5006881	37881	Naval Special Warfare Center - Combat Swimmer Trainer	Single Walled FRP	550	Emergency Generator Supply	Diesel			Active			
LC-3859	LC-3859-AST-00	5006881	37881	Naval Special Warfare Group	Single Walled Steel	400	Used Oil Storage	Used Oil			Removed	NONE		
LC-3859	LC-3859-AST-01	5006881	37881	Naval Special Warfare Group Two	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	2/15/2000		Active	NONE		
LC-3860	LC-3860-UST-01	5006881	37881		FRP	10,000	Unknownnown	Diesel	4/24/1976	10/15/1992	REMOVED FROM GROU	REMOVED FROM GROUND		10/15/1992
LC-3860	LC-3860-UST-02	5006881	37881		Unknownnown	500	Unknownnown	Diesel		10/6/1989	REMOVED FROM GROU	REMOVED FROM GROUND		10/6/1989
LC-	LC-3862-AST-01	5006881	37881	Fuel Farm	Unknownnown	30,000	Bulk Storage	Gasoline	1/1/1942		REMOVED	CURRENTLY IN USE		
LC-3863	LC-3863-AST-01	5006881	37881	Fleet and Industrial Supply Center - Fuel Farm	Single Walled Steel	50,000	Bulk Storage	Diesel	1/1/1953		Active	CURRENTLY IN USE		
LC-3864	LC-3864-AST-01	5006881	37881	Fleet and Industrial Supply Center - Fuel Farm	Single Walled Steel	45,000	Bulk Storage	Diesel	1/1/1953		Active	CURRENTLY IN USE		
LC-	LC-3865-AST-01	5006881	37881	Fuel Farm	Unknownnown	60,000	Bulk Storage	Gasoline	1/1/1953		REMOVED	CURRENTLY IN USE		
LC-	LC-3866-AST-01	5006881	37881	Fuel Farm	Single Walled Steel	30,000	Bulk Storage	Gasoline	1/1/1953		POS	CURRENTLY IN USE		
LC-3868	LC-3868-UST-03	5006881	37881	Fleet and Industrial Supply Center - Fuel Farm	Double Walled FRP	10,000	Emergency Spill Containment	Used Oil	10/1/1992		Active	CURRENTLY IN USE		
LC-3869	LC-3869-AST-01	5006881	37881	Assualt Craft Unit Two, Desert Cove Annex	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1998		Active	NONE		
LC-3869	LC-3869-AST-02	5006881	37881	Assualt Craft Unit Two, Desert Cove Annex	Double Walled Steel in Concrete	250	Product Dispenser	Hydraulic Fluid	1/1/1998		Active	NONE		
LC-3869	LC-3869-AST-04	5006881	37881	Assualt Craft Unit Two, Desert Cove Annex	Double Walled Steel in Concrete	250	Product Dispenser	Lube Oil	1/1/1998		Active	NONE		
LC-3870	LC-3870-AST-01	5006881	37881		Single Walled Steel	2,000	FUEL FOR MAINTENANCE SCHOOL	Diesel		12/15/1999	Removed	CURRENTLY IN USE		12/20/1999
LC-3870	LC-3870-AST-02	5006881	37881	Expeditionary Warfare Training Group, Atlantic	Double Walled Steel in Concrete	2,000	Diesel Engine Training Supply	Diesel	1/15/2000		Active			
LC-3870	LC-3870-UST-01	5006881	37881		Unknownnown	5,000	Unknownnown	Diesel	10/23/1982		REMOVED FROM GROU	CURRENTLY IN USE		3/1/1991
LC-3872	LC-3872-AST-02	5006881	37881	Expeditionary Warfare Training Group, Atlantic	Double Walled Steel in Concrete	500	Diesel Engine Training Supply	Diesel	1/15/2000		Active			
LC-3872	LC-3872-AST-05	5006881	37881		Single Walled Steel	500	MAINTENANCE TRAINING	Diesel			Removed	NONE		
LC-3872	LC-3872-UST-01	5006881	37881	Expeditionary Warfare Training Group, Atlantic	Double Walled FRP	500	Used Oil Storage	Used Oil	7/1/1994		Removed from Ground	CURRENTLY IN USE		5/1/2003
LC-3872	LC-3872-UST-03	5006881	37881		Unknownnown	500	Unknownnown	Diesel	10/23/1986	3/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND		3/1/1991
LC-3872	LC-3872-UST-04	5006881	37881		Unknownnown	550	Unknownnown	Used Oil	10/23/1986	4/7/1994	REMOVED FROM GROU	REMOVED FROM GROUND		4/9/1994
LC-3879	LC-3879-AST-01	5006881	37881	Navfac Mid-Atlantic, Utilities - Sewage Pump Station	Single Walled Steel	275	Emergency Generator Supply	Diesel			REMOVED	NONE		
LC-3879	LC-3879-AST-02	5006881	37881	Navfac Mid-Atlantic, Utilities - Sewage Pump Station	Double Walled Steel	250	Emergency Generator Supply	Diesel	1/1/1997		Active	NONE		
LC-3879	LC-3879-UST-00	5006881	37881	Navfac Mid-Atlantic, Utilities - Sewage Pump Station	Unknownnown	550	Unknownnown	Diesel	10/23/1979	3/1/1989	REMOVED FROM GROU	REMOVED FROM GROUND		3/1/1989
LC-3892	LC-3892-AST-01	5006881	37881			275	Unknownnown				Removed			
LC-3892	LC-3892-AST-02	5006881	37881	Port Operations	Double Walled Steel in Concrete	250	Emergency Generator Supply	Diesel	1/1/1998		Active	NONE		
LC-	LC-4-UST	5006881	37881		fiberglass shown by state as having lined interior	1,000		Used Oil	4/1/1991		NONE	CURRENTLY IN USE		
LC-5000	LC-5000-AST-01	5006881	37881	Navfac Mid-Atlantic, Utilities - Sewage Pump Station	Double Walled Steel	500	Emergency Generator Supply	Diesel	1/1/1996		Active	NONE		
LC-	LC-5-UST	5006881	37881		fiberglass shown by state as having lined interior	550		Used Oil	4/1/1991		NONE	CURRENTLY IN USE		
LC-CB124	LC-CB124-UST-01	5006881	37881	Amphibious Construction Battalion Two	Double Walled FRP	600	Used Oil Storage	Used Oil	7/1/1994		Active	CURRENTLY IN USE		
LC-CB301	LC-CB301-AST-01	5006881	37881	Amphibious Construction Battalion Two	Single Walled Steel	250	Heating System Supply	Used Oil			Active			
LC-CB301	LC-CB301-AST-02	5006881	37881	Amphibious Construction Battalion Two	Single Walled Steel	250	Heating System Supply	Used Oil			Active			
LC-CB301	LC-CB301-AST-03	5006881	37881	Amphibious Construction Battalion Two	Double Walled Steel in Concrete	1,000	Used Oil Storage	Used Oil	5/1/2003		Active			
LC-CB301	LC-CB301-UST-01	5006881	37881	Amphibious Construction Battalion Two	Double Walled FRP	6,000	Product Dispenser	Diesel	7/1/1994	6/12/2001	Removed from Ground	CURRENTLY IN USE		6/12/2001
LC-CB301	LC-CB301-UST-02	5006881	37881	Amphibious Construction Battalion Two	Double Walled FRP	6,000	Product Dispenser	Gasoline	7/1/1994	6/12/2001	Removed from Ground	CURRENTLY IN USE		6/12/2001
LC-CB301	LC-CB301-UST-03	5006881	37881	Amphibious Construction Battalion Two	Double Walled FRP	2,500	Used Oil Storage	Used Oil	7/1/1994		Removed from Ground	CURRENTLY IN USE		7/16/2003
LC-CB301	LC-CB301-UST-04	5006881	37881	Amphibious Construction Battalion Two	Double Walled FRP	550	Used Oil Storage	Used Oil	7/1/1994	8/1/2003	Removed from Ground	Removed from ground		10/9/2003
LC-CB315	LC-CB315-UST-01	5006881	37881		FRP	550	Unknownnown	Used Oil	10/23/1984		REMOVED FROM GROU	CURRENTLY IN USE		12/1/1991
LC-CB317	LC-CB317-UST-00	5006881	37881		Double Walled FRP	1,000	Unknownnown	Used Oil	1/1/1988	1/1/1994	REMOVED FROM GROU	REMOVED FROM GROUND	5/31/1994	4/28/1994
LC-CB317	LC-CB317-UST-01	5006881	37881	Amphibious Construction Battalion Two	Double Walled FRP	1,000	Used Oil Storage	Used Oil	7/1/1994		Removed from Ground	CURRENTLY IN USE		7/10/2003
LC-	LC-DCOVE-1-UST	5006881	37881		Unknownnown	0		Diesel		10/1/1985	REMOVED FROM GROU	REMOVED FROM GROUND		9/14/1990
LC-	LC-DCOVE-2-UST	5006881	37881		Unknownnown	0		Diesel		10/1/1985	REMOVED FROM GROU	REMOVED FROM GROUND		9/14/1990
LC-	LC-G3827-1-UST	5006881	37881		shown by state as concrete	3,000		Used Oil		5/18/1994	Closed in Ground	CLOSED IN GROUND	9/16/1994	5/18/1994

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
LC-	LC-GACU-2-1-UST	5006881	37881		Unknownnown	0		Diesel		10/1/1985	Closed in Ground	CLOSED IN GROUND		10/1/1985
LC-	LC-GACU-2-2-UST	5006881	37881		Unknownnown	0		Diesel		10/1/1985	Closed in Ground	CLOSED IN GROUND		10/1/1985
LC-NAB752	LC-NAB752-AST-01	5006881	37881	Navfac Mid-Atlantic, Utilities	Single Walled Steel	1,000	Emergency Generator Supply	Diesel			Removed	Permanently out of use		
LC-NAB752	LC-NAB752-AST-02	5006881	37881	Navfac Mid-Atlantic, Utilities - Water Plant	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	5/17/2001		Active			
LC-NAB757	LC-NAB757-AST-01	5006881	37881	Navfac Mid-Atlantic, Utilities - Steam Plant	Single Walled Steel	150	Emergency Generator Day Tank	Diesel	10/1/1994		Active			
LC-NAB757	LC-NAB757-AST-06	5006881	37881	Navfac Mid-Atlantic, Utilities	Single Walled Steel	500	Rail Car Thaw System Supply	Diesel			Removed	NONE		
LC-NAB757	LC-NAB757-UST-00	5006881	37881		FRP	4,000	Unknownnown	Diesel	10/23/1986	8/23/1994	REMOVED FROM GROU	REMOVED FROM GROUND	12/21/1994	8/23/1994
LC-NAB757	LC-NAB757-UST-01	5006881	37881	Navfac Mid-Atlantic, Utilities - Steam Plant	Double Walled FRP	4,000	Emergency Generator Supply	Diesel	10/1/1994		Active	CURRENTLY IN USE		
LC-NAB757	LC-NAB759-AST-01	5006881	37881	Navfac Mid-Atlantic, Utilities - Steam Plant	Single Walled Steel	500,000	Heating System Supply	No. 6 Fuel Oil			Permanently Out of Use	CURRENTLY IN USE		
LC-NAB757	LC-NAB760-AST-01	5006881	37881	Navfac Mid-Atlantic, Utilities - Steam Plant	Single Walled Steel	500,000	Heating System Supply	No. 6 Fuel Oil			Permanently Out of Use	CURRENTLY IN USE		
LC-NAB773	LC-NAB773-AST-01	5006881	37881	Navfac Mid-Atlantic, Utilities - Substation	Single Walled Steel	150	Emergency Generator Day Tank	Diesel	12/5/1995		Active			
LC-NAB774	LC-NAB774-AST-01	5006881	37881	Navfac Mid-Atlantic, Utilities - Substation	Single Walled Steel	150	Emergency Generator Day Tank	Diesel	12/5/1995		Active			
LC-NAB775	LC-NAB775-AST-01	5006881	37881	Navfac Mid-Atlantic, Utilities - Substation	Double Walled Steel	5,000	Emergency Generator Supply	Diesel	12/5/1995		Active	CURRENTLY IN USE		
LC-	LC-NORVA-1-UST	5006881	37881		Unknownnown	600		HAZARD	5/5/1974		NONE	CURRENTLY IN USE		
LC-PIER17	LC-PIER17-AST-01	5006881	37881	Lantdiv Remediation Contractor - Tesoro Corporation	Double Walled Steel	500	Remediation System Recovered Oil Storage	Used Oil			Active			
LC-3520	LC-PORT-AST-01	5006881	37881	Navfac Mid-Atlantic, Utilities - Storage Yard	Single Walled Steel	85	Portable Generator Base Tank	Diesel			Active			
LC-3520	LC-PORT-AST-02	5006881	37881	Navfac Mid-Atlantic, Utilities - Storage Yard	Single Walled Steel	85	Portable Generator Base Tank	Diesel			Active			
LC-3520	LC-PORT-AST-03	5006881	37881	Navfac Mid-Atlantic, Utilities - Storage Yard	Single Walled Steel	85	Portable Generator Base Tank	Diesel			Active			
LC-3520	LC-PORT-AST-04	5006881	37881	Navfac Mid-Atlantic, Utilities - Storage Yard	Single Walled Steel	85	Portable Generator Base Tank	Diesel			Active			
LC-3520	LC-PORT-AST-05	5006881	37881	Navfac Mid-Atlantic, Utilities - Storage Yard	Single Walled Steel	85	Portable Generator Base Tank	Diesel			Active			
LC-3520	LC-PORT-AST-06	5006881	37881	Navfac Mid-Atlantic, Utilities - Storage Yard	Single Walled Steel	85	Portable Generator Base Tank	Diesel			Active			
LC-3520	LC-PORT-AST-07	5006881	37881	Navfac Mid-Atlantic, Utilities - Storage Yard	Single Walled Steel	85	Portable Generator Base Tank	Diesel			Active			
LC-3293	LC-PORT-AST-08	5006881	37881	Navfac Mid-Atlantic, Utilities - Line Shack	Single Walled Steel	85	Portable Generator Base Tank	Diesel			Active			
LC-3520	LC-PORT-AST-09	5006881	37881	Navfac Mid-Atlantic, Utilities - Storage Yard	Single Walled Steel	200	Portable Generator Base Tank	Diesel			Active			
LC-	LC-R201-1-UST	5006881	37881		FRP	550		Used Oil	10/23/1984	11/1/1985	REMOVED FROM GROU	REMOVED FROM GROUND		11/1/1985
LC-	LC-R214-1-UST	5006881	37881		FRP	550		Used Oil	10/23/1984	11/1/1985	REMOVED FROM GROU	REMOVED FROM GROUND		11/1/1985
LC-	LC-R2-UST	5006881	37881		Unknownnown	500		Diesel		5/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND		9/14/1990
LC-	LC-R3508-1-UST	5006881	37881		Unknownnown	0		Unknownnown		9/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND		9/1/1990
LC-	LC-RNRMC-UST-01	5006881	37881		FRP	550		Used Oil	10/23/1984	3/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND		3/1/1991
LC-	LC-T9-UST-01	5006881	37881		fiberglass shown by state as having lined interior	550		Used Oil	10/23/1986		REMOVED FROM GROU	CURRENTLY IN USE		1/1/1991
LC-	LC-U1610-1-UST	5006881	37881		Unknownnown	0		Unknownnown		5/1/1986	Closed in Ground	CLOSED IN GROUND		5/1/1986
LR-B	LR-B-UST-01	5023169	15689		Unknownnown	550		Diesel	1/1/1978	1/1/1986	REMOVED FROM GROU	REMOVED FROM GROUND		1/1/1990
LR-H	LR-H-AST-04	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	275	Fire Pump Day Tank	Diesel			Active	NONE		
LR-H	LR-H-AST-05	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	75	Emergency Generator Day Tank	Diesel			Active	NONE		
LR-H	LR-H-UST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	Double Walled FRP	10,000	Heating System Supply	Fuel Oil	4/1/1994		Active	CURRENTLY IN USE		
LR-H	LR-H-UST-02	5023169	15689	Navfac Mid-Atlantic, Utilities	Double Walled FRP	10,000	Heating System Supply	Fuel Oil	4/1/1994		Active	CURRENTLY IN USE		
LR-H	LR-H-UST-03	5023169	15689	Navfac Mid-Atlantic, Utilities	Double Walled FRP	1,000	Emergency Generator Supply	Diesel	4/1/1994		Active	CURRENTLY IN USE		
LR-H	LR-H-UST-06	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	10,000	Supplies fuel to boiler system	Fuel Oil	1/1/1978	4/5/1994	REMOVED FROM GROU	REMOVED FROM GROUND		4/5/1994
LR-H	LR-H-UST-07	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	10,000	Supplies fuel to boiler system	Fuel Oil	1/1/1976	4/5/1994	REMOVED FROM GROU	REMOVED FROM GROUND		4/5/1994
LR-H	LR-H-UST-08	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	1,000	Emergency Generator Supply	Diesel	1/1/1976	1/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND		4/5/1994
NS-	NS-117-UST-01	5019360	15689		Unknownnown	2,500		Diesel	2/24/1973		REMOVED FROM GROU	CURRENTLY IN USE		
NS-	NS-20-UST-01	5019388	12791		Double Walled FRP	550		Used Oil	4/1/1992		Unknown	CURRENTLY IN USE		
NS-	NS-2-NEX-UST	5019385	15693		Unknownnown	1,000		Gasoline	4/26/1967	1/1/1982	Closed in Ground	CLOSED IN GROUND		1/1/1982
NS-	NS-362-2-UST	5019360	15689		Unknownnown	550		Kerosene	2/24/1974		REMOVED FROM GROU	CURRENTLY IN USE		
NS-	NS-3-GATE.7-UST	5019385	15693		Unknownnown	1,000		Gasoline	4/25/1942	1/1/1962	Closed in Ground	CLOSED IN GROUND		1/1/1962
NS-	NS-4-UST-01	5020983	15699		Unknownnown	1,000		Gasoline	5/15/1979	6/1/1979	Closed in Ground	CLOSED IN GROUND		6/1/1979
NS-	NS-530-UST	5019385	15693		Unknownnown	2,000		Gasoline	4/1/1991		Unknown	CURRENTLY IN USE		
NS-	NS-78-UST-01	5019388	12791		Double Walled FRP	1,000		Used Oil	5/1/1991	12/1/1993	Unknown	TEMPORARILY OUT OF USE		12/1/1993
NS-A127	NS-A127-UST-01	5023169	15689	Navfac Mid-Atlantic	Single Walled Steel	1,000	Emergency Generator Supply	Diesel	1/1/1975	1/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND	9/9/1994	1/27/1994
NS-A127	NS-A127-UST-02	5023169	15689	Navfac Mid-Atlantic	Single Walled Steel	1,000	Emergency Generator Supply	Diesel	1/1/1975	1/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND	9/9/1994	1/27/1994
NS-A128	NS-A128-AST-01	0	0	Morale, Welfare, and Recreation Cafeteria	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-A48	NS-A48-AST-01				Double Walled Steel	150	Emergency Generator Base Tank	Diesel			Active			
NS-A80	NS-A80-AST-01	5023169	15689	Navfac Mid-Atlantic, Transportation	Double Walled Steel in Concrete	6,000	Product Dispenser	Diesel	4/23/1996		Removed	CURRENTLY IN USE		
NS-A80	NS-A80-AST-02	0	0	Navfac Mid-Atlantic, Transportation	Double Walled Steel in Concrete	3,000	Product Dispenser	Diesel	6/1/2002		Active			
NS-A80	NS-A80-UST-01	5023169	15689	Navfac Mid-Atlantic	FRP	1,000	Used oil storage	Used Oil	1/1/1983	12/1/1992	REMOVED FROM GROU	REMOVED FROM GROUND	11/11/1994	2/3/1994
NS-A80	NS-A80-UST-02	5023169	15689	Navfac Mid-Atlantic	FRP	1,000	Used oil storage	Used Oil	1/1/1983	12/1/1992	REMOVED FROM GROU	REMOVED FROM GROUND	11/11/1994	2/3/1994
NS-A80	NS-A80-UST-04	5023169	15689	Navfac Mid-Atlantic	FRP	550	Used oil storage	Used Oil	1/1/1977	2/18/1994	REMOVED FROM GROU	REMOVED FROM GROUND		2/18/1994
NS-A81	NS-A81-AST-02			Navfac Mid-Atlantic, Maintenance	Double Walled Steel in Concrete	250	Emergency Generator Supply	Diesel			Active	NONE		
NS-A81	NS-A81-UST-01	5023169	15689	Navfac Mid-Atlantic	FRP	1,000	Used oil storage	Used Oil	1/1/1980	12/1/1992	REMOVED FROM GROU	REMOVED FROM GROUND	11/11/1994	2/7/1994
NS-ABMF	NS-ABMF-AST-01			Magnetic Silencing Facility	Single Walled Steel	750	Emergency Generator Supply	Diesel			Removed	NONE		
NS-	NS-AFFF?-UST	5019360	15689		FRP	5,000		HAZARD	1/1/1976	1/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND	4/16/1998	9/22/1997
NS-	NS-AFFF-UST	5019383	15688		Unknownnown	2,000		LITE WATER	1/27/1946	1/27/1986	Closed in Ground	CLOSED IN GROUND		1/27/1986
NS-B30	NS-B30-AST-01			Naval Station Norfolk, Special Operations	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	1/1/1997		Active	NONE		
NS-B30	NS-B30-AST-02	0	0	Naval Station Norfolk, Special Operations	Closed Top Diked Steel	190	Emergency Generator Supply	Diesel			Active			
NS-	NS-BEN135-UST	5019388	12791		Unknownnown	500		Unknownnown	4/17/1976		REMOVED FROM GROU	CURRENTLY IN USE		
NS-BEN154	NS-BEN154-AST-01	5023169	15689	Ben Moreell Fire Station	Double Walled Steel in Concrete	250	Product Dispenser	Diesel	1/1/1995		Active	CURRENTLY IN USE		
NS-BEN154	NS-BEN154-AST-02	0	0	Ben Moreell Fire Station	Single Walled Steel	70	Emergency Generator Base Tank	Diesel			Active			
NS-C9	NS-C9-AST-01			Special Operations	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	1/1/1997		Active	NONE		
NS-C9	NS-C9-AST-02			Navy Exchange	Single Walled Steel	200	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-CA13	NS-CA13-UST-01	5023169	15689		FRP	550		Used Oil	1/1/1985	10/27/1993	REMOVED FROM GROU	CURRENTLY IN USE	1/31/1995	12/7/1994
NS-CA479	NS-CA479-AST-01				Unknownnown	500	Heating System Supply	No. 2 Fuel Oil	1/1/1967		REMOVED	NONE		
NS-CA482	NS-CA482-AST-01	0	0	Naval Detention Center	Single Walled Steel	180	Emergency Generator Base Tank	Diesel			Active			
NS-CA482	NS-CA482-AST-02	0	0	Naval Detention Center	Single Walled Steel	115	Emergency Generator Base Tank	Diesel			Active			
NS-CA483	NS-CA483-A-AST	5023169	15689	Naval Detention Center	Unknownnown	750		Gasoline			REMOVED	CURRENTLY IN USE		
NS-CA483	NS-CA483-AST-01A			Naval Detention Center	Double Walled Steel in Concrete	250	Product Dispenser	Gasoline	1/1/1996		Active	NONE		
NS-CA483	NS-CA483-AST-01B	0	0	Naval Detention Center	Double Walled Steel in Concrete	250	Product Dispenser	Diesel	1/1/1996		Active	NONE		
NS-CA483	NS-CA483-UST-01	0	0	Naval Brig	Single Walled Steel	550	Product Dispenser	Gasoline			Removed from Ground			8/16/2001
NS-CA501	NS-CA501-AST-01			Morale Welfare & Recreation - Golf Course	Double Walled Steel in Concrete	1,000	Product Dispenser	Gasoline	1/1/1995		Active	CURRENTLY IN USE		
NS-CA501	NS-CA501-AST-02			Morale Welfare & Recreation - Golf Course	Double Walled Steel in Concrete	500	Product Dispenser	Diesel	1/1/1995		Active	NONE		
NS-CA501	NS-CA501-AST-03	0	0	Morale Welfare & Recreation - Golf Course	Double Walled Steel in Concrete	250	Used Oil Storage	Used Oil			Active	NONE		
NS-CA501	NS-CA501-UST-01	5019372	15689		Unknownnown	550		Gasoline	2/28/1978		REMOVED FROM GROU	CURRENTLY IN USE		

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
NS-CA501	NS-CA501-UST-02	5023169	15689		Unknownnown	1,000		Gasoline	1/1/1984	6/1/1992	REMOVED FROM GROU	CURRENTLY IN USE	12/14/1994	11/9/1994
NS-CA6	NS-CA6-AST-04			Navfac Mid-Atlantic, Utilities	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	11/1/1995		Active	NONE		
NS-CA6	NS-CA6-UST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	500	Emergency Generator Supply	Diesel		1/1/1966	REMOVED FROM GROU	REMOVED FROM GROUND		2/16/1994
NS-CA6	NS-CA6-UST-02	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	500	Emergency Generator Supply	Kerosene		1/1/1966	REMOVED FROM GROU	REMOVED FROM GROUND		2/16/1994
NS-CA99	NS-CA99-UST-02			Morale, Welfare, and Recreation - Golf Course	Double Walled FRP	1,000	Heating System Supply	No. 2 Fuel Oil	1/1/1995		Removed from Ground	none		8/27/2001
NS-	NS-CARPER-UST	5023169	15689		Unknownnown	300		Diesel	1/1/1978	11/1/1991	REMOVED FROM GROU	CURRENTLY IN USE		11/1/1991
NS-	NS-CASY-UST			NSN 1st Lt.	Unknownnown	500					Unknown	none		
NS-CD11	NS-CD11-UST-01	5023169	15689	Navy Exchange - Gas Station	Single Walled Steel	20,000	Product Dispenser	Gasoline	2/8/1990		Active	CURRENTLY IN USE		
NS-CD11	NS-CD11-UST-02	5023169	15689	Navy Exchange - Gas Station	Single Walled Steel	20,000	Product Dispenser	Gasoline	2/8/1990		Active	CURRENTLY IN USE		
NS-CD11	NS-CD11-UST-03	5023169	15689	Navy Exchange - Gas Station	Single Walled Steel	20,000	Product Dispenser	Gasoline	2/8/1990		Active	CURRENTLY IN USE		
NS-CD11	NS-CD11-UST-04	5023169	15689	Navy Exchange - Gas Station	Single Walled Steel	12,000	Product Dispenser	Diesel	2/8/1990		Active	CURRENTLY IN USE		
NS-CD13	NS-CD13-AST-01	0	0	Navy Exchange	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-CD14	NS-CD14-AST-01	0	0	Applebee's Restaurant	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-CD2	NS-CD2-AST-01	5023169	15689	Naval Medical Center Portsmouth	Double Walled Steel in Concrete	1,000	Emergency Generator Supply	Diesel	1/1/1995		Active	CURRENTLY IN USE		
NS-CD2	NS-CD2-AST-02	0	0	Naval Medical Center Portsmouth	Single Walled Steel	110	Emergency Generator Day Tank	Diesel			Active			
NS-CD3	NS-CD3-AST-01			Naval Station Norfolk, Dental & Medical Section	Double Walled Steel in Concrete	250	Emergency Generator Supply	Diesel	1/1/1996		Active	NONE		
NS-CD3	NS-CD3-UST	5020983	15699		Unknownnown	1,000		Diesel	5/14/1976		REMOVED FROM GROU	CURRENTLY IN USE		1/1/1992
NS-CD7	NS-CD7-AST-01	0	0	Navy Exchange - Commissary	Single Walled Steel	50	Emergency Generator Supply	Diesel			Active	NONE		
NS-CD7	NS-CD7-AST-02	0	0	Navy Exchange - Commissary	Single Walled Steel	50	Emergency Generator Day Tank	Diesel			Active			
NS-CD8	NS-CD8-UST-01			Navfac Mid-Atlantic, Utilities	Single Walled FRP	8,000	Emergency Spill Containment	Used Oil			Active	NONE		
NS-CEP11	NS-CEP11-AST-01	5023169	15689		Single Walled Steel	674,478	Used Oil Storage	Used Oil	1/1/1980		Active	CURRENTLY IN USE		
NS-CEP126	NS-CEP126-AST-01	5023169	15689	SUBLANT	Double Walled Steel in Concrete	1,000	Product Dispenser	Gasoline	1/1/1996		Removed	CURRENTLY IN USE		
NS-CEP126	NS-CEP126-AST-02			SUBLANT - Submarines Atlantic Fleet	Double Walled Steel in Concrete	500	Product Dispenser	Diesel			Active	NONE		
NS-CEP127	NS-CEP127-AST-01	0	0	Bowling Center	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-CEP156	NS-CEP156-AST-01	0	0	Fleet and Industrial Supply Center - Defense Distribution Depo	Single Walled Steel	6,000	Emergency Generator Supply	Diesel			Active	NONE		
NS-CEP156	NS-CEP156-AST-02			Fleet and Industrial Supply Center - Defense Distribution Depo	Double Bottomed Steel	100	Emergency Generator Base Tank	Diesel			Active			
NS-CEP158	NS-CEP158-AST-01			Navfac Mid-Atlantic, Utilities	Single Walled Steel	275	Emergency Generator Supply	Diesel			REMOVED	NONE		
NS-CEP158	NS-CEP158-AST-02			Navfac Mid-Atlantic, Utilities	Double Walled Steel in Concrete	250	Emergency Generator Supply	Diesel	5/31/1996		Active	NONE		
NS-CEP167A	NS-CEP167A-AST-01	0	0		Single Walled Steel	50	Emergency Generator Day Tank	Diesel			Active			
NS-CEP172	NS-CEP172-AST-01	5023169	15689		Double Walled Steel in Concrete	1,000		Diesel			REMOVED	CURRENTLY IN USE		
NS-CEP172	NS-CEP172-UST-01	5023169	15689		FRP	2,000		Diesel		8/15/1994	REMOVED FROM GROU	CURRENTLY IN USE	2/1/1995	12/28/1994
NS-CEP183	NS-CEP183-AST-01			Special Operations	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	1/1/1996		Active	NONE		
NS-CEP183	NS-CEP183-UST-01	5023169	15689		Unknownnown	550		Diesel	1/1/1979	11/21/1994	REMOVED FROM GROU	CURRENTLY IN USE		11/22/1994
NS-CEP186	NS-CEP186-AST-01			Navfac Mid-Atlantic, Utilities	Single Walled Steel	75	Emergency Generator Supply	Diesel			Removed	NONE		
NS-CEP186	NS-CEP186-AST-02			Navfac Mid-Atlantic, Utilities - Sewage Pump Station	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	6/3/1996		Active	NONE		
NS-CEP186	NS-CEP186-UST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	550	Emergency Generator Supply	Diesel	1/1/1979	7/14/1996	REMOVED FROM GROU	none	4/3/1997	11/21/1996
NS-CEP187	NS-CEP187-AST-01			Navfac Mid-Atlantic, Utilities	Single Walled Steel	300	Emergency Generator Supply	Diesel			REMOVED	NONE		
NS-CEP187	NS-CEP187-AST-02			Navfac Mid-Atlantic, Utilities	Single Walled Steel	300	Emergency Generator Supply	Diesel			REMOVED	NONE		
NS-CEP188	NS-CEP188-AST-01			Navfac Mid-Atlantic, Engineering - SCAPS	Double Walled Steel in Concrete	500	Heating System Supply	Diesel	5/1/1995		Active	NONE		
NS-CEP188	NS-CEP188-AST-02			Navfac Mid-Atlantic, Engineering - SCAPS	Double Walled Steel in Concrete	250	Product Dispenser	Gasoline	5/1/1995		Active	NONE		
NS-CEP188	NS-CEP188-AST-03			Navfac Mid-Atlantic, Engineering - SCAPS	Double Bottomed Steel	280	Used Oil Storage	Used Oil			Active			
NS-CEP188	NS-CEP188-UST-02	5023169	15689		Unknownnown	1,000		Used Oil	1/5/1982		REMOVED FROM GROU	CURRENTLY IN USE		1/1/1993
NS-CEP1	NS-CEP1-UST-01	5019377	15100	Navfac Mid-Atlantic, Utilities - Steam Commodity	Concrete	1,092,000	Bulk Storage	Diesel	1/1/1942		Active	CURRENTLY IN USE		
NS-CEP200	NS-CEP200-AST-01	0	0	Shore Intermediate Maintenance Acitivity	Single Walled Steel	275	Heating System Day Tank	F-76			Removed	NONE		
NS-CEP200	NS-CEP200-AST-02	0	0	Shore Intermediate Maintenance Acitivity	Double Walled Steel in Concrete	500	Product Dispenser	Diesel	1/1/1996		Active	NONE		
NS-CEP200	NS-CEP200-AST-03	0	0	Shore Intermediate Maintenance Acitivity	Double Walled Steel in Concrete	500	Oily Condensate Storage	Used Oil	1/15/2000		None	NONE		
NS-CEP200	NS-CEP200-AST-04	0	0	Shore Intermediate Maintenance Acitivity	Single Walled Steel	200	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-CEP200	NS-CEP200-UST-01	5023169	15689	Shore Intermediate Maintenance Acitivity	Unknownnown	1,000	WASTEWATER	Wastewater	1/5/1987		WASTEWATER	CURRENTLY IN USE		
NS-CEP200	NS-CEP200-UST-02	5023169	15689	Shore Intermediate Maintenance Acitivity	Unknownnown	1,000	WASTEWATER	Wastewater	1/5/1987		WASTEWATER	CURRENTLY IN USE		
NS-CEP200	NS-CEP200-UST-03	5023169	15689	Shore Intermediate Maintenance Acitivity	Unknownnown	1,000	WASTEWATER	Wastewater	1/5/1987		Wastewater	CURRENTLY IN USE		
NS-CEP200	NS-CEP200-UST-04	5023169	15689	Shore Intermediate Maintenance Acitivity	Unknownnown	1,000	WASTEWATER	Wastewater	1/5/1987		WASTEWATER	CURRENTLY IN USE		
NS-CEP200	NS-CEP200-UST-05	5023169	15689	Shore Intermediate Maintenance Acitivity	Unknownnown	1,000	WASTEWATER	Wastewater	1/5/1987		WASTEWATER	CURRENTLY IN USE		
NS-CEP200	NS-CEP200-UST-06	5023169	15689	Shore Intermediate Maintenance Acitivity	Unknownnown	1,000	WASTEWATER	Wastewater	1/5/1987		WASTEWATER	CURRENTLY IN USE		
NS-CEP200	NS-CEP200-UST-07	5023169	15689	Shore Intermediate Maintenance Acitivity	Unknownnown	1,000	WASTEWATER	Wastewater	1/5/1987		WASTEWATER	CURRENTLY IN USE		
NS-CEP200	NS-CEP200-UST-08	5023169	15689	Shore Intermediate Maintenance Acitivity	Unknownnown	1,000	WASTEWATER	Wastewater	1/5/1987		WASTEWATER	CURRENTLY IN USE		
NS-CEP200	NS-CEP200-UST-09	5023169	15689	Shore Intermediate Maintenance Acitivity	Single Walled FRP	4,000	Process Steam System	F-76	1/5/1987		Removed from Ground	CURRENTLY IN USE		3/1/2004
NS-CEP202	NS-CEP202-AST-01	0	0	McDonalds	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-CEP209	NS-CEP209-AST-01	0	0	SIMA	Double Walled Steel	375	Emergency Generator Base Tank	Diesel	1/1/2003		Active			
NS-CEP2	NS-CEP2-UST-01	5019377	15100	Navfac Mid-Atlantic, Utilities - Steam Commodity	Concrete	1,092,000	Bulk Storage	Diesel	1/1/1942		Active	CURRENTLY IN USE		
NS-CEP3	NS-CEP3-UST-01	5019377	15100	Navfac Mid-Atlantic, Utilities - Steam Commodity	Concrete	1,092,000	Bulk Storage	F-76	1/1/1942		Active	CURRENTLY IN USE		
NS-CEP4	NS-CEP4-AST-02	0	0	Navfac Mid-Atlantic, Utilities - Steam Commodity	Closed Top Diked Steel	100	Emergency Generator Base Tank	Diesel			Active			
NS-CEP4	NS-CEP4-UST-01	5019377	15100		Unknownnown	2,500		Diesel	3/31/1942	10/1/1990	REMOVED FROM GROU	CURRENTLY IN USE		10/1/1990
NS-CEP57	NS-CEP57-AST-04	0	0	Bank of America	Double Walled Steel in Concrete	500	Heating System Supply	Diesel			Active	NONE		
NS-CEP57	NS-CEP57-UST-01	5019377	15100		FRP	4,000		Gasoline	11/1/1988	10/8/1996	REMOVED FROM GROU	CURRENTLY IN USE	1/31/1997	2/7/1997
NS-CEP57	NS-CEP57-UST-02	5019377	15100		FRP	4,000		Gasoline	11/1/1988	10/8/1996	REMOVED FROM GROU	CURRENTLY IN USE	1/31/1997	2/7/1997
NS-CEP57	NS-CEP57-UST-03	5019377	15100		FRP	4,000		Diesel	11/1/1988	10/8/1996	REMOVED FROM GROU	CURRENTLY IN USE	1/31/1997	2/7/1997
NS-CEP4	NS-CEP5-UST-01	0	0	Navfac Mid-Atlantic, Utilities	Single Walled FRP	550	Emergency Spill Containment	Emergency Overflow Spillage			Permanently Out of Use	NONE		
NS-CEP64	NS-CEP64-AST-01			Navy Public Works Center - Utilities Code 621	Single Walled Steel	0	Supplies fuel to boiler system	No. 2 Fuel Oil			REMOVED	NONE		
NS-CEP65	NS-CEP65-AST-01	0	0	ERC (Contractor)	Double Walled Steel	500	Remediation System Recovered Oil Storage	Used Oil			Active	NONE		
NS-CEP66	NS-CEP66-UST-01	5019372	15689		Unknownnown	10,000		Gasoline	1/1/1957	2/5/1995	REMOVED FROM GROU	CURRENTLY IN USE	4/20/1995	2/8/1995
NS-CEP66	NS-CEP66-UST-02	5019372	15689		Unknownnown	10,000		Gasoline	2/27/1974	2/5/1995	REMOVED FROM GROU	CURRENTLY IN USE	4/20/1995	2/8/1995
NS-CEP66	NS-CEP66-UST-03	5023169	15689		Unknownnown	10,000		Gasoline	1/5/1960	1/5/1990	REMOVED FROM GROU	CURRENTLY IN USE		1/5/1990
NS-CEP66	NS-CEP66-UST-04	5019372	15689		Unknownnown	550		Used Oil	1/5/1960	1/1/1975	REMOVED FROM GROU	CURRENTLY IN USE		12/4/1991
NS-CEP66	NS-CEP66-UST-05	5019372	15689	Navy Exchange - Gas Station	Double Walled FRP	10,000	Product Dispenser	Gasoline	1/1/1995		Active	CURRENTLY IN USE		
NS-CEP66	NS-CEP66-UST-06	5019372	15689	Navy Exchange - Gas Station	Double Walled FRP	10,000	Product Dispenser	Gasoline	1/1/1995		Active	CURRENTLY IN USE		
NS-CEP66	NS-CEP66-UST-07	5019372	15689	Navy Exchange - Gas Station	Double Walled FRP	6,000	Product Dispenser	Gasoline	1/1/1995		Active	CURRENTLY IN USE		
NS-CEP9	NS-CEP9-AST-01			Navfac Mid-Atlantic, Utilities	Single Walled Steel	75	Emergency Generator Supply	Diesel			Removed	NONE		
NS-CEP9	NS-CEP9-AST-02	0	0	Navfac Mid-Atlantic, Utilities	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	1/1/1996		Active	NONE		
NS-CEP9	NS-CEP9-UST-00	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	550	Emergency Generator Supply	Diesel	3/8/1982	6/8/1996	Closed in Ground	CLOSED IN GROUND	4/3/1997	11/20/1996
NS-	NS-DEM-M-UST	5019383	15688		Unknownnown	25,000		Diesel	1/27/1946		REMOVED FROM GROU	CURRENTLY IN USE		
NS-	NS-DFM-2-UST	5019360	15689		Unknownnown	20,000		Diesel	1/1/1976	1/1/1990	REMOVED FROM GROU	CURRENTLY IN USE	4/16/1998	9/22/1997

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
NS-	NS-DFM-5-UST	5019360	15689		Unknownnown	20,000		Diesel	1/1/1976	9/22/1997	REMOVED FROM GROU	CURRENTLY IN USE	4/16/1998	9/22/1997
NS-LP209	NS-DOT-AST-01	0	0	Virginia Department of Transportation	Double Walled Steel	4,000	Unknownnown	Diesel			Not Government Owned			
NS-DS	NS-DS10-AST-01			Magnetic Silencing Facility	Single Walled Steel	250	Fire Pump Supply	Diesel			Removed	NONE		
NS-DS	NS-DS10-AST-02	0	0	Magnetic Silencing Facility	Single Walled Steel	100	Fire Pump Supply	Diesel			Active			
NS-DS	NS-DS24-AST-01			Magnetic Silencing Facility	Single Walled Steel	85	Fire Pump Supply	Diesel			Removed	NONE		
NS-DS	NS-DS24-AST-02	0	0	Magnetic Silencing Facility	Double Bottomed Steel	100	Fire Pump Supply	Diesel			Active			
NS-DS31	NS-DS31-AST-01	5023169	15689	Magnetic Silencing Facility	Double Walled Steel in Concrete	4,000	Product Dispenser	Diesel	1/1/1996		Active	CURRENTLY IN USE		
NS-DS31	NS-DS31-AST-02	5023169	15689	Magnetic Silencing Facility	Double Walled Steel in Concrete	4,000	Product Dispenser	Diesel	1/1/1996		Active	CURRENTLY IN USE		
NS-DS31	NS-DS31-AST-03			Magnetic Silencing Facility	Single Walled Steel	100	Emergency Generator Supply	Diesel			Removed	NONE		
NS-DS31	NS-DS31-AST-04	0	0	Magnetic Silencing Facility	Single Walled Steel	75	Emergency Generator Base Tank	Diesel			Active			
NS-DS31	NS-DS31-AST-05	0	0	Magnetic Silencing Facility	Closed Top Diked Steel	100	Emergency Generator Supply	Diesel			Active			
NS-E2	NS-E2-AST-01	0	0	Gate 2	Closed Top Diked Steel	500	Emergency Generator Base Tank	Diesel	12/1/2004		Active			
NS-FRP14	NS-FRP14-UST-01	5019372	15689		Unknownnown	3,000		Gasoline	2/28/1975	1/1/1988	REMOVED FROM GROU	CURRENTLY IN USE		11/25/1991
NS-FRP64	NS-FRP64-AST-01	0	0	Morale Welfare & Recreation - Grounds Maintenance	Double Walled Steel in Concrete	250	Product Dispenser	Gasoline	1/1/1999		Active	NONE		
NS-FRP64	NS-FRP64-AST-02	0	0	Morale Welfare & Recreation - Grounds Maintenance	Double Walled Steel in Concrete	250	Product Dispenser	Diesel	1/1/1999		Active	NONE		
NS-	NS-G113-UST	5019360	15689		Unknownnown	500		No. 2 Fuel Oil	1/1/1972	11/1/1991	Closed in Ground	CLOSED IN GROUND	10/14/1993	1/19/1993
NS-	NS-G115-UST	5019360	15689		Unknownnown	2,000		Used Oil	2/25/1974	1/1/1991	REMOVED FROM GROU	CURRENTLY IN USE	10/14/1993	1/19/1993
NS-	NS-G132B-UST	5019388	12791		Unknownnown	1,000		Unknownnown	1/1/1952	10/1/1990	Closed in Ground	CLOSED IN GROUND		10/1/1990
NS-	NS-G1-UST	5023988	13253		Unknownnown	4,000		Gasoline	1/1/1962	1/1/1985	Closed in Ground	CLOSED IN GROUND		1/1/1985
NS-	NS-G22A-UST	5019388	12791		Unknownnown	1,000		Unknownnown	4/17/1946	12/31/1969	Closed in Ground	CLOSED IN GROUND		4/30/1991
NS-	NS-G22B-UST	5019388	12791		Unknownnown	1,000		Used Oil	11/17/1945	12/31/1969	Closed in Ground	CLOSED IN GROUND		4/30/1991
NS-	NS-G2-UST	5023988	13253		Unknownnown	4,000		Gasoline	1/1/1962	1/1/1985	Closed in Ground	CLOSED IN GROUND		1/1/1985
NS-	NS-G343-UST	5019360	15689		shown by state as concrete having lined interior	564,028		Kerosene	2/25/1943	1/1/1992	Closed in Ground	CLOSED IN GROUND		1/1/1992
NS-	NS-G3-UST	5023988	13253		Unknownnown	10,000		Gasoline	1/1/1974	1/1/1985	Closed in Ground	CLOSED IN GROUND		1/1/1985
NS-	NS-GAS-5-UST	5019383	15689		Unknownnown	15,000		Gasoline	1/27/1946		REMOVED FROM GROU	CURRENTLY IN USE		
NS-H9	NS-H9-AST-01	0	0	HRNM Annex NALC	Single Walled Steel	200	Emergency Generator Base Tank	Diesel			Active			
NS-	NS-HEWITT-UST	5023169	15689		FRP	550		Diesel	1/1/1983	5/5/1996	REMOVED FROM GROU	CURRENTLY IN USE	4/3/1997	11/18/1996
NS-HF99	NS-HF99-UST-01	5023169		Navy Public Works Center, Utilities	Single Walled Steel	550	Emergency Generator Supply	Diesel	1/1/1983		REMOVED FROM GROU	none		
NS-IAA	NS-IAA-AST-01			Navy Regional Food Services - Galley	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-KBB	NS-KBB-AST-03	0	0	NSN 1st Lt.	Double Walled Steel in Concrete	500	Product Dispenser	Gasoline		8/29/2000	Removed	NONE		8/29/2000
NS-KBB	NS-KBB-AST-04	0	0	First Lieutenant	Closed Top Diked Steel	120	Emergency Generator Base Tank	Diesel			Active			
NS-KBB	NS-KBB-UST-01	5023169	15689		Unknownnown	3,500		Diesel	1/5/1944	12/1/1988	Closed in Ground	CLOSED IN GROUND		12/1/1988
NS-KBB	NS-KBB-UST-02	5023169	15689		Unknownnown	3,500		Diesel	1/5/1944	12/1/1988	Closed in Ground	CLOSED IN GROUND		12/1/1988
NS-L28	NS-L28-AST-01	0	0	Naval Transportation Support Center	Double Bottomed Steel	500	Emergency Generator Base Tank	Diesel			Removed			
NS-LAG110	NS-LAG110-AST-01			Air Operations Department	Double Walled Steel in Concrete	250	Heating System Supply	Diesel	1/1/1996		Active	NONE		
NS-LAG110	NS-LAG110-AST-02			Air Operations Department	Double Walled Steel in Concrete	500	Used Oil Storage	Used JP-5			Active	NONE		
NS-LAG110	NS-LAG110-AST-03	0	0	Air Operations Department	Single Walled Steel	50	Heating System Day Tank	Diesel			Active			
NS-	NS-LAG11-UST	5019372	15689		Unknownnown	1,000		No. 2 Fuel Oil	1/1/1943	1/1/1993	REMOVED FROM GROU	CURRENTLY IN USE	8/27/1996	6/12/1995
NS-LAG27	NS-LAG27-AST-01			Morale Welfare & Recreation - Sailing Center	Double Walled Steel in Concrete	250	Product Dispenser	Gasoline	1/1/1996		Active	NONE		
NS-LAG27	NS-LAG27-AST-02			Barge HQ	Double Walled Steel in Concrete	250	Heating System Supply	No. 2 Fuel Oil	1/1/1996		REMOVED	NONE		
NS-LAG39	NS-LAG39-AST-01	5023169	15689		FRP	1,000		Used Oil			REMOVED	CURRENTLY IN USE		
NS-LAG77	NS-LAG77-AST-02	0	0		Double Walled Steel in Concrete	250	Heating System Supply	No. 2 Fuel Oil			REMOVED	NONE		
NS-LF4	NS-LF4-AST-02	0	0	Navfac Mid-Atlantic, Utilities	Single Walled Steel	125	Emergency Generator Base Tank	Diesel			Active			
NS-LF4	NS-LF4-UST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	FRP	550	Emergency Generator Supply	Diesel	1/1/1983	12/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND		2/18/1994
NS-LF53	NS-LF53-AST-01	0	0	Afloat & Air Section HC-6	Single Walled Steel	150	Emergency Generator Day Tank	Diesel			Removed			
NS-LF59	NS-LF59-AST-01			Helicopter Combat Support Squadron Six	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1997		Active	NONE		
NS-LF59	NS-LF59-AST-02			Helicopter Combat Support Squadron Eight	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1997		Active	NONE		
NS-LF60	NS-LF60-AST-01			Marine Aircraft Group 42	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1997		Active	NONE		
NS-LF60	NS-LF60-AST-02	0	0	Marine Aircraft Group 42	Single Walled Steel	250	Emergency Generator Day Tank	Diesel			Active			
NS-LP100	NS-LP100-AST-01	5023169	15689	Air Mobility Command	Double Walled Steel in Concrete	1,000	Heating System Supply	No. 2 Fuel Oil	4/1/1995		POS	CURRENTLY IN USE		
NS-LP Fuel Farm	NS-LP109-UST-01	5019360	15689	Universal Fuel, Inc. (Contractor)	Single Walled Steel	12,860	Bulk Storage	Gasoline	1/1/1960	1/2/2001	Removed from Ground	CURRENTLY IN USE		1/2/2001
NS-LP Fuel Farm	NS-LP110-UST-01	5019360	15689	Universal Fuel, Inc. (Contractor)	Single Walled Steel	12,860	Bulk Storage	Gasoline	1/1/1960	1/2/2001	Removed from Ground	CURRENTLY IN USE		1/2/2001
NS-LP Fuel Farm	NS-LP111-UST-01	5019360	15689	Universal Fuel, Inc. (Contractor)	Single Walled Steel	12,860	Used Oil Storage	Used Oil	1/1/1960	1/2/2001	Removed from Ground	CURRENTLY IN USE		1/2/2001
NS-LP112	NS-LP112-AST-01			Air Operations Department	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	8/1/1999		Removed	NONE		
NS-LP112	NS-LP112-AST-02	0	0	Air Operations Department	Single Walled Steel	150	Emergency Generator Day Tank	Diesel			Removed			
NS-LP112	NS-LP112-UST-03			Air Operations Department	Unknownnown	500	Emergency Generator Supply	Diesel			Removed from Ground	none		3/10/2000
NS-LP117	NS-LP117-AST-01	5023169	15689	Air Mobility Command	Double Walled Steel in Concrete	1,000	Product Dispenser	Diesel	1/1/1992		Active	CURRENTLY IN USE		
NS-LP117	NS-LP117-AST-02	5023169	15689	Air Mobility Command	Double Walled Steel in Concrete	1,000	Product Dispenser	JP-5	1/1/1992		Active	CURRENTLY IN USE		
NS-LP117	NS-LP117-AST-03			Air Mobility Command	Double Walled Steel in Concrete	500	Product Dispenser	JP-5	1/1/1992		Active	NONE		
NS-LP117	NS-LP117-AST-04			Air Mobility Command	Double Walled Steel in Concrete	500	Product Dispenser	Gasoline	1/1/1992		Active	NONE		
NS-LP117	NS-LP117-AST-05			Air Mobility Command	Double Walled Steel in Concrete	500	Product Dispenser	Diesel	1/1/1992		Active	NONE		
NS-LP Fuel Farm	NS-LP125-AST-01	5023169	15689	Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	2,000	Product Dispenser	Diesel	1/1/1996		Active	CURRENTLY IN USE		
NS-LP Fuel Farm	NS-LP125-AST-02			Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	125	Used Oil Storage	Used Oil	1/1/1996		Active	NONE		
NS-LP Fuel Farm	NS-LP125-AST-03			Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	125	Used Oil Storage	Used Oil	1/1/1996		Active	NONE		
NS-LP Fuel Farm	NS-LP125-AST-04			Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	500	Product Dispenser	Gasoline	1/1/1996		Active	NONE		
NS-	NS-LP125B-AST	5023169	15689		Unknownnown	1,000		Gasoline			REMOVED	CURRENTLY IN USE		
NS-	NS-LP125-C-AST			Universal Fuel, Inc. (Contractor)	Unknownnown	250	Used Oil Storage	Used Oil	1/1/1996		REMOVED	NONE		
NS-	NS-LP125-D-AST			Universal Fuel, Inc. (Contractor)	Unknownnown	250	Used Oil Storage	Used Oil	1/1/1996		REMOVED	NONE		
NS-	NS-LP126-AST			Universal Fuel, Inc. (Contractor)	Unknownnown	3,000	Equipment fueling	Diesel			REMOVED	CURRENTLY IN USE		
NS-LP12	NS-LP12-AST-01			VAW-78	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1997		Removed	NONE		
NS-LP13	NS-LP13-AST-01			VRC-40	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1997		Removed	NONE		
NS-LP13	NS-LP13-UST-01	0	0		Single Walled Steel	550	Product Collection	Recovered Oil			Removed from Ground			6/11/2002
NS-LP13	NS-LP13-UST-02	0	0			550	Product Collection	Recovered Oil			Removed from Ground			6/11/2002
NS-	NS-LP142-A-AST			Universal Fuel, Inc. (Contractor)	Unknownnown	250	Waste oil storage	Used Oil	1/1/1996		REMOVED	NONE		
NS-LP Fuel Farm	NS-LP142-AST-01			Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	250	Used Oil Storage	Used JP-5	1/1/1996		Active	NONE		
NS-	NS-LP142-B-AST			Universal Fuel, Inc. (Contractor)	Unknownnown	250	Waste oil storage	Used Oil	1/1/1996		REMOVED	NONE		
NS-LP Fuel Farm	NS-LP144-AST-01			Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	250	Used Oil Storage	Used JP-5	1/1/1996		Active	NONE		
NS-LP14	NS-LP14-AST-01			Aircraft Intermediate Maintenance Department	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1997		Active	NONE		
NS-LP Fuel Farm	NS-LP15-UST-01	5019360	15689	Universal Fuel, Inc. (Contractor)	Unknownnown	24,300		JP-5	2/24/1941	12/1/1997	REMOVED FROM GROU	CURRENTLY IN USE	8/7/1998	1/12/1998
NS-LP Fuel Farm	NS-LP15-UST-02	5019360	15689	Universal Fuel, Inc. (Contractor)	Unknownnown	24,300		JP-5	2/24/1941	12/1/1997	REMOVED FROM GROU	CURRENTLY IN USE	8/7/1998	1/13/1998
NS-LP Fuel Farm	NS-LP15-UST-03	5019360	15689	Universal Fuel, Inc. (Contractor)	Unknownnown	24,300		JP-5	2/24/1941	12/1/1997	REMOVED FROM GROU	CURRENTLY IN USE	8/7/1998	1/13/1998

Table 2-1
List of Tanks and Status
NAVFAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
NS-LP Fuel Farm	NS-LP15-UST-04	5019360	15689	Universal Fuel, Inc. (Contractor)	Unknownnown	24,300		JP-5	2/24/1941	12/1/1997	REMOVED FROM GROU	CURRENTLY IN USE		1/14/1998
NS-LP Fuel Farm	NS-LP15-UST-05	5019360	15689	Universal Fuel, Inc. (Contractor)	Unknownnown	24,300		JP-5	2/24/1941	12/1/1997	REMOVED FROM GROU	CURRENTLY IN USE	8/7/1998	1/14/1998
NS-LP Fuel Farm	NS-LP15-UST-06	5019360	15689	Universal Fuel, Inc. (Contractor)	Unknownnown	24,300		JP-5	2/24/1941	12/1/1997	REMOVED FROM GROU	CURRENTLY IN USE	8/7/1998	2/10/1998
NS-LP Fuel Farm	NS-LP160-AST-01	5023169	15689	ERC (Contractor)	Unknownnown	3,000	Stores oil from remediation system	Recovered Oil			REMOVED	CURRENTLY IN USE		
NS-LP Fuel Farm	NS-LP161-AST-01	5023169	15689	Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	6,000	Used Oil Storage	JP-5			Temporarily Out of Use	CURRENTLY IN USE		
NS-LP Fuel Farm	NS-LP161-UST-01	5019360	15689	Universal Fuel, Inc. (Contractor)	Single Walled Steel	25,000	Used Oil Storage	Reclaimed JP-5	1/1/1960		Removed from Ground	CURRENTLY IN USE		
NS-LP165	NS-LP165-AST-01	0	0	GCA SYSTEM	Double Walled Steel in Concrete	275	Emergency Generator Supply	Diesel			Active			
NS-LP165	NS-LP165-AST-02	0	0	GCA SYSTEM	Closed Top Diked Steel	75	Emergency Generator Base Tank	Diesel			Active			
NS-LP166	NS-LP166-AST-00			Fire Department	Unknownnown	275	Emergency Generator Supply	Diesel			REMOVED	NONE		
NS-LP166	NS-LP166-AST-01	5023169	15689	Fire Department	Unknownnown	1,000	Heating System Supply	No. 2 Fuel Oil	1/1/1996		REMOVED	CURRENTLY IN USE		
NS-LP166	NS-LP166-AST-02	0	0	Fire Department	Double Walled Steel in Concrete	250	Emergency Generator Supply	Diesel			Active	NONE		
NS-LP166	NS-LP166-AST-03	5023169	15689	Fire Department	Double Walled Steel in Concrete	1,000	Product Dispenser	Diesel	11/1/1995		Active	CURRENTLY IN USE		
NS-LP167	NS-LP167-UST-01	5020983	15689	Naval Aviation Depot Jacksonville Detachment	Single Walled Steel	10,000	Heating System Supply	Fuel Oil	5/14/1996		POS	CURRENTLY IN USE		
NS-LP167	NS-LP167-UST-02	5020983	15689	Naval Aviation Depot Jacksonville Detachment	Single Walled Steel	10,000	Heating System Supply	Fuel Oil	5/14/1976		POS	CURRENTLY IN USE		
NS-LP Fuel Farm	NS-LP16-UST-07	5019360	15689	Universal Fuel, Inc. (Contractor)	Unknownnown	24,300		JP-5	2/24/1941	12/1/1997	REMOVED FROM GROU	CURRENTLY IN USE	8/7/1998	2/10/1998
NS-LP Fuel Farm	NS-LP16-UST-08	5019360	15689	Universal Fuel, Inc. (Contractor)	Unknownnown	24,300		JP-5	2/24/1941	12/1/1997	REMOVED FROM GROU	CURRENTLY IN USE	8/7/1998	2/11/1998
NS-LP Fuel Farm	NS-LP16-UST-09	5019360	15689	Universal Fuel, Inc. (Contractor)	Unknownnown	24,300		JP-5	2/24/1941	12/1/1997	REMOVED FROM GROU	CURRENTLY IN USE	8/7/1998	2/11/1998
NS-LP Fuel Farm	NS-LP16-UST-10	5019360	15689	Universal Fuel, Inc. (Contractor)	Unknownnown	24,300		JP-5	2/24/1941	12/1/1997	REMOVED FROM GROU	CURRENTLY IN USE	8/7/1998	2/11/1998
NS-LP Fuel Farm	NS-LP16-UST-11	5019360	15689	Universal Fuel, Inc. (Contractor)	Unknownnown	24,300		JP-5	2/24/1941	12/1/1997	REMOVED FROM GROU	CURRENTLY IN USE	8/7/1998	2/13/1998
NS-LP Fuel Farm	NS-LP16-UST-12	5019360	15689	Universal Fuel, Inc. (Contractor)	Unknownnown	24,300		JP-5	2/24/1941	12/1/1997	REMOVED FROM GROU	CURRENTLY IN USE	8/7/1998	2/16/1998
NS-LP176	NS-LP176-AST-00	5023169	15689	ERC (Contractor)	Unknownnown	3,000	Stores oil from remediation system	Recovered Oil			REMOVED	CURRENTLY IN USE		
NS-LP176	NS-LP176-UST-01	5019388	12791		Unknownnown	5,000		Used Oil	11/17/1976	9/1/1992	REMOVED FROM GROU	TEMPORARILY OUT OF USE		9/1/1992
NS-LP176	NS-LP176-UST-02	5019388	12791		Unknownnown	1,000		Used Oil	11/17/1976	9/1/1992	REMOVED FROM GROU	TEMPORARILY OUT OF USE		9/1/1992
NS-LP176	NS-LP176-UST-03	5019388	12791		Double Walled FRP	6,000		Fuel Oil	5/1/1993		REMOVED FROM GROU	CURRENTLY IN USE		
NS-LP176	NS-LP176-UST-04	5019388	12791		Double Walled FRP	6,000		Fuel Oil	5/1/1993		REMOVED FROM GROU	CURRENTLY IN USE		
NS-LP180	NS-LP180-AST-01			RTF	Double Walled Steel in Concrete	1,000	Emergency Generator Supply	Diesel	1/1/1995		REMOVED	NONE		
NS-LP Fuel Farm	NS-LP18-AST-01	0	0	Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	12,000	Bulk Storage	Gasoline	1/1/2001		Active			
NS-LP Fuel Farm	NS-LP18-AST-02	0	0	Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	12,000	Bulk Storage	Diesel	1/1/2001		Active			
NS-LP Fuel Farm	NS-LP18-AST-03	0	0	Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	12,000	Bulk Storage	Diesel	1/1/2001		Active			
NS-LP Fuel Farm	NS-LP18-AST-04	0	0	Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	12,000	Bulk Storage	Lube Oil	1/1/2001		Active			
NS-LP Fuel Farm	NS-LP18-AST-05	0	0	Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	12,000	Bulk Storage	Lube Oil	1/1/2001		Active			
NS-LP Fuel Farm	NS-LP19-AST-01			Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	250	Used Oil Storage	Used Oil	1/1/1996		Active	NONE		
NS-LP1	NS-LP1-AST-01			Air Operations Department	Single Walled Steel	275	Emergency Generator Supply	Diesel			Removed	NONE		
NS-LP1	NS-LP1-AST-02	0	0	Air Operations Department	Double Walled Steel in Concrete	275	Emergency Generator Supply	Diesel	1/1/2000		Removed			
NS-LP1	NS-LP1-AST-03	0	0	Air Operations Department	Double Bottomed Steel	55	Emergency Generator Base Tank	Diesel			Removed			
NS-LP205A	NS-LP205A-AST-01	0	0	Air Mobility Command	Double Walled Steel in Concrete	1,000	Washrack Steam Boiler System Fuel Supply	Diesel			POS	NONE		
NS-LP205	NS-LP205-AST-02	0	0	Air Mobility Command	Closed Top Diked Steel	750	Heating System Supply	Diesel			Active			
NS-LP205	NS-LP205-UST-01	5019360	15689	Air Mobility Command	Unknownnown	5,000		No. 2 Fuel Oil	1/1/1980	3/4/1994	REMOVED FROM GROU	CURRENTLY IN USE	8/27/1996	9/11/1995
NS-LP205	NS-LP205-UST-02	5019360	15689	Air Mobility Command	Double Walled FRP	5,000	Heating System Supply	No. 2 Fuel Oil	1/1/1995		Removed from Ground	CURRENTLY IN USE		4/3/2001
NS-LP209	NS-LP209-AST-01			Naval Air Station Norfolk	Double Walled Steel in Concrete	1,000	Emergency Generator Supply	Diesel	1/1/1997		Active	NONE		
NS-LP209	NS-LP209-AST-02	0	0	Naval Air Station Norfolk	Single Walled Steel	250	Emergency Generator Day Tank	Diesel			Removed			
NS-LP209	NS-LP209-AST-03	0	0	Naval Air Station Norfolk	Single Walled Steel	55	Emergency Generator Day Tank	Diesel			Active			
NS-LP209	NS-LP209-UST-01	5019360	15689	Naval Air Station Norfolk	Unknownnown	2,500		Diesel		5/29/1997	REMOVED FROM GROU	REMOVED FROM GROUND	7/29/1997	7/2/1997
NS-LP20	NS-LP20-AST-01	0	0	Navfac Mid-Atlantic, Transportation	Double Walled Steel in Concrete	250	Product Dispenser	Diesel	8/1/2000		Active			
NS-LP20	NS-LP20-AST-03	5006881	37881	Transportation	Double Walled Steel in Concrete	6,000	Product Dispenser	Bio-Diesel	6/1/2005		Active	Temporarily out of use		
NS-LP20	NS-LP20-AST-2	0	0			6,000	Product Dispenser	Diesel			Active			
NS-LP212	NS-LP212-AST-01	0	0	Air Operations Department	Closed Top Diked Steel	500	Emergency Generator Base Tank	Diesel			Active			
NS-LP21	NS-LP21-AST-01			VAW Maintenance Hangar - VFW-124 PO Dardy (4-8857)	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	11/21/2003		Active	NONE		
NS-LP22	NS-LP22-UST-01	0	0	NADEP	Single Walled Steel	1,000	Bulk Storage	Varsol		12/31/1988	Removed from Ground	Removed from ground		4/30/1991
NS-LP22	NS-LP22-UST-02	0	0	NADEP	Single Walled Steel	1,000	Bulk Storage	Waste Oil	1/1/1945	12/31/1969	Closed in Ground	Closed in ground		4/30/1991
NS-LP22	NS-LP22-UST-03	0	0	NADEP	Single Walled Steel	1,000	Bulk Storage	Varsol		12/31/1988	Removed from Ground	Removed from ground		4/30/1991
NS-LP22	NS-LP22-UST-04	0	0	NADEP	Single Walled Steel	1,000	Bulk Storage	Waste Solvent	1/1/1945	12/31/1969	Closed in Ground	Closed in ground		4/30/1991
NS-LP22	NS-LP22-UST-05	0	0	NADEP	Single Walled Steel	1,000	Bulk Storage	Waste Oil			Removed from Ground	Removed from ground		4/30/1991
NS-LP27	NS-LP27-AST-02				Double Walled Steel	250	Used Oil Storage	Used Oil			Removed	Permanently out of use		
NS-LP2	NS-LP2-AST-01			T-Line	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1997		Removed	NONE		
NS-LP33	NS-LP33-AST-01	0	0	VR56	Single Walled Steel	200	Emergency Generator Day Tank	Diesel			Active			
NS-LP33	NS-LP33-AST-02	0	0	VR56	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil			Active			
NS-LP34	NS-LP34-AST-01			VAW-120	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1997		Active	NONE		
NS-LP Fuel Farm	NS-LP38-AST-01	5023169	15689	Universal Fuel, Inc. (Contractor)	Single Walled Steel	300,000	Bulk Storage	JP-5	1/16/1997		Active	CURRENTLY IN USE		
NS-LP Fuel Farm	NS-LP39-UST-01	5019360	15689	Universal Fuel, Inc. (Contractor)	Concrete	236,250	Bulk Storage	JP-5	1/1/1944		Active	CURRENTLY IN USE		
NS-LP3	NS-LP3-AST-01	0	0	VRC-40	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	9/1/2000		Active	NONE		
NS-LP Fuel Farm	NS-LP40-UST-01	5019360	15689	Universal Fuel, Inc. (Contractor)	Concrete	236,250	Bulk Storage	JP-5	1/1/1944		Active	CURRENTLY IN USE		
NS-LP Fuel Farm	NS-LP41-UST-01	5019360	15689	Universal Fuel, Inc. (Contractor)	Concrete	550,200	Bulk Storage	JP-5	1/1/1944		Active	CURRENTLY IN USE		
NS-LP Fuel Farm	NS-LP42-UST-01	5019360	15689	Universal Fuel, Inc. (Contractor)	Concrete	547,050	Bulk Storage	JP-5	1/1/1944		Active	CURRENTLY IN USE		
NS-LP Fuel Farm	NS-LP43-AST-01	5023169	15689	Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	2,000	Bulk Storage	Gasoline			Removed	CURRENTLY IN USE		
NS-LP Fuel Farm	NS-LP43-AST-02	5023169	15689	Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	6,000	Bulk Storage	Gasoline			Temporarily Out of Use	CURRENTLY IN USE		
NS-LP44	NS-LP44-AST-01			LP Fuel Farm	Double Walled Steel in Concrete	6,000	Used Oil Storage	JP-5			Temporarily Out of Use	CURRENTLY IN USE		
NS-LP44	NS-LP44-AST-02			LP Fuel Farm	Double Walled Steel in Concrete	2,000	Bulk Storage	Gasoline			Temporarily Out of Use	CURRENTLY IN USE		
NS-LP44	NS-LP44-AST-03			LP Fuel Farm	Double Walled Steel in Concrete	6,000	Bulk Storage	Gasoline			Temporarily Out of Use	CURRENTLY IN USE		
NS-LP Fuel Farm	NS-LP44-AST-04			LP Fuel Farm	Double Walled Steel in Concrete	250	Used Oil Storage	Used JP-5			Active			
NS-LP4	NS-LP4-AST-01			Helicopter Combat Support Squadron Two	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1997		Active	NONE		
NS-LP4	NS-LP4-AST-02			Helicopter Combat Support Squadron Two	Double Walled Steel	250	Used Oil Storage	Used Oil			Active	Permanently out of use		
NS-LP Fuel Farm	NS-LP54-UST-01	5019360	15689	Universal Fuel, Inc. (Contractor)	Single Walled Steel	25,000	Bulk Storage	Lube Oil	1/1/1945	2/1/2001	Removed from Ground	CURRENTLY IN USE		2/1/2001
NS-LP Fuel Farm	NS-LP54-UST-02	5019360	15689	Universal Fuel, Inc. (Contractor)	Single Walled Steel	25,000	Bulk Storage	Lube Oil	1/1/1945	2/1/2001	Removed from Ground	CURRENTLY IN USE		2/1/2001
NS-LP Fuel Farm	NS-LP54-UST-03	5019360	15689	Universal Fuel, Inc. (Contractor)	Single Walled Steel	25,000	Bulk Storage	Lube Oil	1/1/1945	2/1/2001	Removed from Ground	CURRENTLY IN USE		2/1/2001
NS-LP Fuel Farm	NS-LP54-UST-04	5019360	15689	Universal Fuel, Inc. (Contractor)	Single Walled Steel	25,000	Bulk Storage	F-76	1/1/1945	2/1/2001	Removed from Ground	CURRENTLY IN USE		2/1/2001
NS-LP Fuel Farm	NS-LP61-AST-01			Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	250	Used Oil Storage	Used Oil	1/1/1996		Active	NONE		
NS-LP Fuel Farm	NS-LP61-AST-02	0	0	Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	12,000	Used Oil Storage	Recovered JP-5	1/1/2001		Active			
NS-LP Fuel Farm	NS-LP61-AST-03	0	0	Universal Fuel, Inc. (Contractor)	Double Walled Steel in Concrete	12,000	Used Oil Storage	Recovered JP-5	1/1/2001		Active			
NS-LP78	NS-LP78-UST-01	0	0		Single Walled Steel	1,000	Bulk Storage	Waste Oil	1/1/1961	4/30/1991	Removed from Ground	Removed from ground		4/30/1991
NS-LP78	NS-LP78-UST-02	0	0		Single Walled Steel	1,000	Bulk Storage	Waste Oil	1/1/1961	4/30/1991	Removed from Ground	Removed from ground		4/30/1991

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
NS-LP Fuel Farm	NS-LPFF-AST-01	0	0	ERC (Contractor)	Double Walled Steel in Concrete	1,000	Remediation System Recovered Oil Storage	Used Oil			Active	NONE		
NS-M112	NS-M112-AST-01			Morale Welfare & Recreation - Golf Course	Double Walled Steel in Concrete	250	Product Dispenser	Diesel	1/1/1998		Active	NONE		
NS-M113	NS-M113-UST-01	5023169	15689		Unknownnown	2,000		Diesel	1/1/1963	1/1/1978	Closed in Ground	CLOSED IN GROUND		8/1/1992
NS-M113	NS-M113-UST-03	5023169	15689		Unknownnown	1,000		Diesel	1/1/1967	3/1/1975	REMOVED FROM GROU	CURRENTLY IN USE		3/1/1975
NS-M51	NS-M51-AST-01	0	0	Naval Computer & Telecommunications Area Master Station A	Single Walled Steel	150	Emergency Generator Day Tank	Diesel			Active			
NS-M51	NS-M51-AST-02	0	0	Naval Computer & Telecommunications Area Master Station A	Single Walled Steel	150	Emergency Generator Day Tank	Diesel			Active			
NS-M51	NS-M51-AST-03	0	0	Naval Computer & Telecommunications Area Master Station A	Single Walled Steel	150	Emergency Generator Day Tank	Diesel			Active			
NS-M51	NS-M51-UST-01	5020281	11440	Naval Computer & Telecommunications Area Master Station A	Single Walled FRP	4,000	Emergency Generator Supply	Diesel	1/1/1981		Active	CURRENTLY IN USE		
NS-M51	NS-M51-UST-02	5020281	11440	Naval Computer & Telecommunications Area Master Station A	Single Walled FRP	4,000	Emergency Generator Supply	Diesel	1/1/1981		Active	CURRENTLY IN USE		
NS-M51	NS-M51-UST-04	5020281	11440	Naval Computer & Telecommunications Area Master Station A	Single Walled FRP	12,000	Emergency Generator Supply	Diesel	1/1/1987		Active	CURRENTLY IN USE		
NS-M52	NS-M52-AST-01	5023169	15689	Naval Computer & Telecommunications Area Master Station A	Double Walled Steel in Concrete	1,000	Heating System Supply	Diesel			Active	CURRENTLY IN USE		
NS-M57	NS-M57-UST-01	5007993	15986		Unknownnown	1,000		Used Oil		1/2/1992	REMOVED FROM GROU	CURRENTLY IN USE		1/2/1992
NS-MCA612	NS-MCA612-AST-04			Commander Marine Forces Atlantic	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1998		Active	NONE		
NS-MCA612	NS-MCA612-UST-01			Commander Marine Forces Atlantic	Unknownnown	1,000	Waste oil storage	Used Oil	1/1/1990		REMOVED FROM GROU	none		
NS-MCA612	NS-MCA612-UST-02			Commander Marine Forces Atlantic	Unknownnown	4,000	Equipment fueling	Diesel	1/1/1990		REMOVED FROM GROU	none		
NS-MCA612	NS-MCA612-UST-03			Commander Marine Forces Atlantic	Unknownnown	4,000	Equipment fueling	Gasoline	1/1/1990		REMOVED FROM GROU	none		
NS-MCE224	NS-MCE224-AST-04			Marine Corp Exchange Retail Sales Citgo	Double Walled Steel in Concrete	500	Heating System Supply	No. 2 Fuel Oil	1/1/1995		REMOVED	NONE		
NS-MCE224	NS-MCE224-AST-05			Marine Corp Exchange Auto Pride Gas Station	Double Walled Steel in Concrete	250	Used Oil Storage	Used Oil	1/1/1995		Active	NONE		
NS-MCE224	NS-MCE224-UST-01	5023169	15689		Unknownnown	10,000		Gasoline	1/1/1975	1/5/1995	REMOVED FROM GROU	CURRENTLY IN USE	4/20/1995	1/5/1995
NS-MCE224	NS-MCE224-UST-02	5023169	15689		Unknownnown	10,000		Gasoline	1/1/1975	1/5/1995	REMOVED FROM GROU	CURRENTLY IN USE	4/20/1995	1/5/1995
NS-MCE224	NS-MCE224-UST-03	5023169	15689		Unknownnown	10,000		Gasoline	1/1/1975	1/5/1995	REMOVED FROM GROU	CURRENTLY IN USE	4/20/1995	1/5/1995
NS-MCE224	NS-MCE224-UST-04	5023169	15689		Unknownnown	550		Used Oil	6/1/1968	11/30/1994	REMOVED FROM GROU	CURRENTLY IN USE	1/31/1995	11/30/1994
NS-MCE224	NS-MCE224-UST-05	5023169	15689		Unknownnown	1,000		No. 2 Fuel Oil		11/30/1994	REMOVED FROM GROU	CURRENTLY IN USE	1/31/1995	11/30/1994
NS-MCE224	NS-MCE224-UST-06	5023169	15689	Marine Corp Exchange Auto Pride Gas Station	Double Walled FRP	10,000	Product Dispenser	Gasoline	1/1/1995		Active	CURRENTLY IN USE		
NS-MCE224	NS-MCE224-UST-07	5023169	15689	Marine Corp Exchange Auto Pride Gas Station	Double Walled FRP	10,000	Product Dispenser	Gasoline	1/1/1995		Active	CURRENTLY IN USE		
NS-MCE224	NS-MCE224-UST-08	5023169	15689	Marine Corp Exchange Auto Pride Gas Station	Double Walled FRP	6,000	Product Dispenser	Gasoline	1/1/1995		Active	CURRENTLY IN USE		
NS-MCE65	NS-MCE65-UST-01	5007993	15986		Unknownnown	3,000		Gasoline	1/1/1970	12/31/1989	REMOVED FROM GROU	CURRENTLY IN USE		11/23/1991
NS-MCE65	NS-MCE65-UST-02	5007993	15986		Unknownnown	3,000		Gasoline	1/1/1970	12/31/1989	REMOVED FROM GROU	CURRENTLY IN USE		11/23/1991
NS-N25A	NS-N25A-AST-01	5023169	15689	Fleet Training Center	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	11/1/1995		Active	CURRENTLY IN USE		
NS-N25A	NS-N25A-AST-02	0	0	Fleet Training Center	Single Walled Steel	80	Emergency Generator Base Tank	Diesel			Active			
NS-N26	NS-N26-AST-03			Fleet Training Center	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	1/1/1987		Active	NONE		
NS-N26	NS-N26-AST-04	0	0	Fleet Training Center	Closed Top Diked Steel	175	Emergency Generator Base Tank	Diesel			Active			
NS-N26	NS-N26-UST-01	5023169	15689		Unknownnown	500		Diesel	1/1/1967	6/11/1995	REMOVED FROM GROU	CURRENTLY IN USE	3/29/1996	6/16/1995
NS-N26	NS-N26-UST-02	5023169	15689	Fleet Training Center	Double Walled FRP	500	Emergency Generator Supply	Diesel	6/1/1995		Active	CURRENTLY IN USE		
NS-NH12	NS-NH12-AST-01			Atlantic Fleet Headquarters Support Activity	Single Walled Steel	500	Emergency Generator Supply	Diesel			Active	NONE		
NS-NH139	NS-NH139-AST-01	0	0	Atlantic Fleet Headquarters Support Activity	Single Walled Steel	75	Emergency Generator Day Tank	Diesel			Active			
NS-NH139	NS-NH139-AST-02	0	0	Atlantic Fleet Headquarters Support Activity	Single Walled Steel	75	Emergency Generator Day Tank	Diesel			Active			
NS-NH139	NS-NH139-AST-03			Atlantic Fleet Headquarters Support Activity	Single Walled Steel	200	Emergency Generator Base Tank	Diesel			Active			
NS-NH139	NS-NH139-UST-01	5019360	15689	Atlantic Fleet Headquarters Support Activity	Double Walled FRP	10,000	Emergency Generator Supply	Diesel	1/1/1978		REMOVED FROM GROU	REMOVED FROM GROUND		7/19/1995
NS-NH139	NS-NH139-UST-02	5019360	15689	Atlantic Fleet Headquarters Support Activity	Single Walled FRP	2,000	Emergency Generator Supply	Diesel	1/1/1989		Active	CURRENTLY IN USE		
NS-NH139	NS-NH139-UST-03	5023169	15689	Atlantic Fleet Headquarters Support Activity	Double Walled FRP	4,000	Emergency Generator Supply	Diesel	8/3/1995		Active	CURRENTLY IN USE		
NS-NH142	NS-NH142-AST-01	0	0	Atlantic Fleet Headquarters Support Activity	Single Walled Steel	250	Emergency Generator Base Tank	Diesel			Active			
NS-NH19	NS-NH19-AST-04	0	0	Atlantic Fleet Headquarters Support Activity	Single Walled Steel	50	Emergency Generator Day Tank	Diesel			Active			
NS-NH19	NS-NH19-AST-05	0	0	Atlantic Fleet Headquarters Support Activity	Single Walled Steel	50	Emergency Generator Day Tank	Diesel			Active			
NS-NH19	NS-NH19-AST-06	0	0	Atlantic Fleet Headquarters Support Activity	Single Walled Steel	50	Emergency Generator Day Tank	Diesel			Active			
NS-NH19	NS-NH19-UST-03	5023169	15689	Atlantic Fleet Headquarters Support Activity	Double Walled FRP	6,000	Emergency Generator Supply	Diesel	1/1/1989		Active	CURRENTLY IN USE		
NS-NH200	NS-NH200-AST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	230,000	Supplies fuel to boiler system	Fuel Oil			REMOVED	CURRENTLY IN USE		
NS-NH26	NS-NH26-AST-01	0	0	Atlantic Fleet Headquarters Support Activity	Closed Top Diked Steel	350	Emergency Generator Base Tank	Diesel			Active			
NS-NH31	NS-NH31-AST-01	0	0	SACLANT Headquarters	Closed Top Diked Steel	150	Emergency Generator Base Tank	Diesel			Active			
NS-NH31	NS-NH31-AST-02	0	0	SACLANT Headquarters	Closed Top Diked Steel	500	Emergency Generator Base Tank	Diesel			Active			
NS-NH34	NS-NH34-AST-01			Atlantic Fleet Headquarters Support Activity	Single Walled Steel	250	Used Oil Storage	Used Oil			Removed	NONE		
NS-NH34	NS-NH34-AST-02	0	0	Headquarters Support Activity	Closed Top Diked Steel	150	Emergency Generator Base Tank	Diesel			Removed			
NS-NH35	NS-NH35-UST-01	5019372	15689		Unknownnown	10,000		Gasoline	1/1/1973	1/1/1993	REMOVED FROM GROU	CURRENTLY IN USE	3/15/1994	11/23/1993
NS-NH35	NS-NH35-UST-02	5019372	15689		Unknownnown	5,000		Gasoline	1/1/1957	6/1/1990	REMOVED FROM GROU	CURRENTLY IN USE	3/15/1994	11/23/1993
NS-NH35	NS-NH35-UST-03	5019372	15689		Unknownnown	5,000		Gasoline	1/1/1957	6/1/1990	REMOVED FROM GROU	CURRENTLY IN USE	3/15/1994	11/23/1993
NS-NH35	NS-NH35-UST-04	5019372	15689		Unknownnown	1,000		Used Oil	1/1/1957	12/31/1985	REMOVED FROM GROU	CURRENTLY IN USE		12/2/1991
NS-NH35	NS-NH35-UST-05	5019372	15689		Unknownnown	3,000		Used Oil	1/1/1957	12/31/1985	REMOVED FROM GROU	CURRENTLY IN USE		1/9/1991
NS-NH36	NS-NH36-AST-01	0	0	Headquarters Support Activity	Closed Top Diked Steel	100	Emergency Generator Base Tank	Diesel			Active			
NS-NH41	NS-NH41-AST-01	0	0	Headquarters Support Activity	Single Walled Steel	245	Emergency Generator Base Tank	Diesel			Active			
NS-NH41	NS-NH41-AST-02	0	0	Headquarters Support Activity	Single Walled Steel	75	Emergency Generator Base Tank	Diesel			Active			
NS-NH4	NS-NH4-AST-01			Atlantic Fleet Headquarters Support Activity	Single Walled Steel	250	Emergency Generator Supply	Diesel			POS	NONE		
NS-NH54	NS-NH54-AST-01			Atlantic Fleet Headquarters Support Activity	Single Walled Steel	250	Product Dispenser	Diesel			Removed	NONE		
NS-NH54	NS-NH54-AST-02			Atlantic Fleet Headquarters Support Activity	Double Walled Steel in Concrete	275	Product Dispenser	Diesel			Active			
NS-NH74	NS-NH74-AST-01	0	0	Atlantic Fleet Headquarters Support Activity	Single Walled Steel	100	Emergency Generator Base Tank	Diesel			Active			
NS-NH8	NS-NH8-AST-01	0	0	Atlantic Fleet Headquarters	Closed Top Diked Steel	200	Emergency Generator Base Tank	Diesel			Active			
NS-NH8	NS-NH8-AST-02	0	0	Atlantic Fleet Headquarters	Closed Top Diked Steel	200	Emergency Generator Base Tank	Diesel			Active			
NS-NH8	NS-NH8-AST-03	0	0	Atlantic Fleet Headquarters	Single Walled Steel	100	Emergency Generator Base Tank	Diesel			Temporarily Out of Use			
NS-NH94	NS-NH94-AST-06	0	0	Atlantic Fleet Headquarters Support Activity	Single Walled Steel	500	Emergency Generator Day Tank	Diesel			Active			
NS-NH94	NS-NH94-AST-07	0	0	Atlantic Fleet Headquarters Support Activity	Single Walled Steel	500	Emergency Generator Day Tank	Diesel			Active			
NS-NH94	NS-NH94-AST-08	0	0	Atlantic Fleet Headquarters Support Activity	Single Walled Steel	500	Emergency Generator Day Tank	Diesel			Active			
NS-NH94	NS-NH94-AST-09	0	0	Atlantic Fleet Headquarters Support Activity	Single Walled Steel	500	Emergency Generator Day Tank	Diesel			Active			
NS-NH94	NS-NH94-AST-10			Atlantic Fleet Headquarters Support Activity	Double Walled Steel in Concrete	1,000	Used Oil Storage	Used Oil	1/1/2004		Active			
NS-NH94	NS-NH94-AST-11	0	0	Atlantic Fleet Headquarters Support Activity	Double Walled Steel in Concrete	1,000	Used Oil Storage	Used Oil	10/1/2004		Active			
NS-NH94	NS-NH94-UST-01	5023169	15689	Atlantic Fleet Headquarters Support Activity	Double Walled Steel	25,000	Emergency Generator Supply	Diesel	1/1/1988		Active	CURRENTLY IN USE		
NS-NH94	NS-NH94-UST-02	5023169	15689	Atlantic Fleet Headquarters Support Activity	Double Walled Steel	25,000	Emergency Generator Supply	Diesel	1/1/1988		Active	CURRENTLY IN USE		
NS-NH94	NS-NH94-UST-03	5023169	15689	Atlantic Fleet Headquarters Support Activity	Double Walled Steel	25,000	Emergency Generator Supply	Diesel	1/1/1988		Active	CURRENTLY IN USE		
NS-NH94	NS-NH94-UST-04	5023169	15689	Atlantic Fleet Headquarters Support Activity	Single Walled Steel	1,000	Used Oil Storage	Used Oil	1/1/1988		Removed	CURRENTLY IN USE		4/12/2005
NS-NH94	NS-NH94-UST-05	5023169	15689	Atlantic Fleet Headquarters Support Activity	Single Walled Steel	1,000	Used Oil Storage	Used Oil	1/1/1988		Active	CURRENTLY IN USE		
NS-NH95	NS-NH95-UST-01	5023169	15689	Atlantic Fleet Headquarters Support Activity	Double Walled FRP	12,000	Emergency Generator Supply	Diesel	1/1/1990		Active	CURRENTLY IN USE		
NS-NM154	NS-NM154-UST-01	5019360	15689		Unknownnown	550		Diesel	1/1/1979	6/29/1995	REMOVED FROM GROU	CURRENTLY IN USE	3/29/1996	6/29/1995
NS-NM154	NS-NM154-UST-02	5019360	15689	GEMD	Double Walled FRP	500	Emergency Generator Supply	Diesel	7/1/1995		Active	CURRENTLY IN USE		

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
NS-NM176	NS-NM176-AST-00			GEMD	Single Walled Steel	275	Emergency Generator Supply	Diesel			Removed	NONE		
NS-NM176	NS-NM176-AST-02	0	0	GEMD	Double Walled Steel in Concrete	275	Emergency Generator Supply	Diesel	1/1/2000		Active			
NS-NM176	NS-NM176-UST-01	5019360	15689	GEMD	Single Walled Steel	5,000	Heating System Supply	No. 2 Fuel Oil	2/24/1978		Removed from Ground	CURRENTLY IN USE		5/2/2001
NS-NM37	NS-NM37-AST-01			GEMD	Unknownnown	275	Heating System Supply	No. 2 Fuel Oil			REMOVED	NONE		
NS-NM59A	NS-NM59A-AST-01	0	0	Navfac Mid-Atlantic, Maintenance	Double Bottomed Steel	100	Emergency Generator Base Tank	Diesel			Active			
NS-NM59A	NS-NM59A-AST-02	0	0	Navfac Mid-Atlantic, Maintenance	Double Bottomed Steel	100	Emergency Generator Base Tank	Diesel			Active			
NS-NM59	NS-NM59-UST-01	5023169	15689		Unknownnown	6,000	Stores Non-Regulated rinse water	HAZARD	1/1/1984	1/1/1987	REMOVED FROM GROU	REMOVED FROM GROUND		12/3/1992
NS-NM71	NS-NM71-AST-01	5023169	15689		Unknownnown	1,000	Heating System Supply	No. 2 Fuel Oil			REMOVED	CURRENTLY IN USE		
NS-NM72	NS-NM72-AST-01	0	0	Air Operations Department	Single Walled Steel	200	Emergency Generator Day Tank	Diesel			Permanently Out of Use			
NS-NM72	NS-NM72-AST-02	0	0	Air Operations Department	Double Walled Steel in Concrete	1,000	Emergency Generator Supply	Diesel	12/14/2004		Active			
NS-NM72	NS-NM72-UST-01	5019360	15689	Air Operations Department (GEMD)	Double Walled FRP	1,000	Emergency Generator Supply	Diesel	1/1/1987		Removed from Ground	CURRENTLY IN USE		12/8/2004
NS-NM75	NS-NM75-AST-01			Air Operations Department (GEMD)	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	1/1/1995		Active	NONE		
NS-	NS-NM78A-AST	5023169	15689		Unknownnown	880		Diesel			REMOVED	CURRENTLY IN USE		
NS-NM81A	NS-NM81A-AST-01			Atlantic Ordnance Command	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	1/1/1998		Active	NONE		
NS-O25	NS-O25-AST-01			Fleet Training Center	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	1/1/1995		Active	NONE		
NS-O25	NS-O25-UST-01	5023169	15689		Unknownnown	550		Diesel	1/1/1987	1/13/1995	Closed in Ground	CLOSED IN GROUND	3/20/1995	1/13/1995
NS-P1	NS-P1-AST-01	0	0	Navfac Mid-Atlantic, Utilities, Central Power Plant	Single Walled Steel	75	Emergency Generator Day Tank	Diesel			Active			
NS-P1	NS-P1-AST-02	0	0	Navfac Mid-Atlantic, Utilities, Central Power Plant	Single Walled Steel	75	Emergency Generator Day Tank	Diesel			Active			
NS-P1	NS-P1-AST-03	0	0	Navfac Mid-Atlantic, Utilities, Central Power Plant	Single Walled Steel	75	Emergency Generator Day Tank	Diesel			Active			
NS-P1	NS-P1-AST-04	0	0	Navfac Mid-Atlantic, Utilities, Central Power Plant	Single Walled Steel	75	Emergency Generator Day Tank	Diesel			Active			
NS-P1	NS-P1-AST-05	0	0	Navfac Mid-Atlantic, Utilities, Central Power Plant	Single Walled Steel	75	Emergency Generator Day Tank	Diesel			Active			
NS-	NS-P250-UST	5019383	15688		fiberglass shown by state as having lined interior	500		Gasoline	1/27/1985	12/18/1994	REMOVED FROM GROU	CURRENTLY IN USE		12/19/1994
NS-P1	NS-P27-AST-01	5023169	15689	Navfac Mid-Atlantic, Utilities - Steam Commodity	Single Walled Steel	235,000	Heating System Supply	No. 2 Fuel Oil	1/1/1940		Active	CURRENTLY IN USE		
NS-P2	NS-P2-AST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	23,750	Emergency Generator Supply	Diesel	1/1/1993		Active	CURRENTLY IN USE		
NS-P2	NS-P2-AST-02			Navfac Mid-Atlantic, Utilities	Single Walled Steel	23,750	Emergency Generator Supply	Diesel	1/1/1993		Active	CURRENTLY IN USE		
NS-P2	NS-P2-UST-03	0	0	Navfac Mid-Atlantic, Utilities	Single Walled FRP	8,000	Emergency Spill Containment	Used Oil			Active	NONE		
NS-	NS-P64A-AST	5023169	15689		Unknownnown	1,000		Kerosene			REMOVED	CURRENTLY IN USE		
NS-P64	NS-P64-AST-14	5023169	15689	Navy Exchange - Gas Station	Double Walled Steel in Concrete	1,000	Product Dispenser	Kerosene	1/30/1997		Active	CURRENTLY IN USE		
NS-P64	NS-P64-AST-15	5023169	15689	Navy Exchange - Gas Station	Double Walled Steel in Concrete	2,000	Used Oil Storage	Used Oil			Active	CURRENTLY IN USE		
NS-P64	NS-P64-UST-00			Navy Exchange - Retail Shops	Unknownnown	500					Temporarily Out of Use	NONE		
NS-P64	NS-P64-UST-01	5019372	15689		Unknownnown	12,000		Gasoline	2/27/1942	1/20/1994	REMOVED FROM GROU	CURRENTLY IN USE	3/15/1994	1/26/1994
NS-P64	NS-P64-UST-02	5019372	15689		Unknownnown	12,000		Gasoline	2/27/1942	2/2/1992	REMOVED FROM GROU	CURRENTLY IN USE	3/15/1994	1/26/1994
NS-P64	NS-P64-UST-03	5019372	15689		Unknownnown	12,000		Gasoline	2/27/1942	11/1/1993	REMOVED FROM GROU	CURRENTLY IN USE	3/15/1994	1/26/1994
NS-P64	NS-P64-UST-04	5019372	15689		Unknownnown	12,000		Gasoline	2/27/1942	1/20/1994	REMOVED FROM GROU	CURRENTLY IN USE	3/15/1994	1/25/1994
NS-P64	NS-P64-UST-05	5019372	15689		Unknownnown	12,000		Gasoline	2/27/1974	9/1/1988	REMOVED FROM GROU	CURRENTLY IN USE		11/1/1989
NS-P64	NS-P64-UST-06	5023169	15689		FRP	2,000	WASTE OIL STORAGE	Used Oil	6/1/1985	12/5/1994	REMOVED FROM GROU	CURRENTLY IN USE	1/23/1995	12/5/1994
NS-P64	NS-P64-UST-07	5019372	15689		Unknownnown	550		Used Oil	1/1/1985	12/31/1985	REMOVED FROM GROU	CURRENTLY IN USE		12/5/1991
NS-P64	NS-P64-UST-08	5019372	15689		Unknownnown	1,200		Gasoline	1/1/1940	1/1/1960	REMOVED FROM GROU	CURRENTLY IN USE	11/9/1994	1/1/1960
NS-P64	NS-P64-UST-09	5019372	15689		Unknownnown	1,200		Gasoline	1/1/1940	1/1/1960	REMOVED FROM GROU	CURRENTLY IN USE	11/9/1994	1/1/1960
NS-P64	NS-P64-UST-10	5019372	15689		Unknownnown	1,200		Gasoline	1/1/1940	1/1/1960	REMOVED FROM GROU	CURRENTLY IN USE	11/9/1994	1/1/1960
NS-P64	NS-P64-UST-11	5019372	15689	Navy Exchange - Gas Station	Double Walled FRP	12,000	Product Dispenser	Gasoline	1/1/1994		Active	CURRENTLY IN USE		
NS-P64	NS-P64-UST-12	5019372	15689	Navy Exchange - Gas Station	Double Walled FRP	20,000	Product Dispenser	Gasoline	1/1/1994		Active	CURRENTLY IN USE		
NS-P64	NS-P64-UST-13	5019372	15689	Navy Exchange - Gas Station	Double Walled FRP	20,000	Product Dispenser	Gasoline	1/1/1994		Active	CURRENTLY IN USE		
NS-P68	NS-P68-AST-01	0	0	Navy Exchange - Retail Shops	Closed Top Diked Steel	150	Emergency Generator Base Tank	Diesel			Active			
NS-P1	NS-P78-AST-01	5023169	15689	Navfac Mid-Atlantic, Utilities - Steam Commodity	Single Walled Steel	249,834	Heating System Supply	No. 2 Fuel Oil	1/1/1943		Active	CURRENTLY IN USE		
NS-P86	NS-P86-AST-01	0	0	Bowling Center	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-P89	NS-P89-AST-01	0	0	Gate 3A	Closed Top Diked Steel	500	Emergency Generator Base Tank	Diesel			Active			
NS-PIER10	NS-PIER10-AST-01			Port Operations	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-PIER12	NS-PIER12-AST-01			Navfac Mid-Atlantic, Utilities	Single Walled Steel	49,650	Supplies fuel to boiler system	No. 2 Fuel Oil	1/1/1979		Removed	NONE		
NS-PIER14	NS-PIER14-AST-01			Port Operations	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-PIER3	NS-PIER3-AST-01			Port Operations	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-PIER24T	NS-PIER3T-AST-01	0	0	Submarine Squadron Support Unit	Double Walled Steel in Concrete	500	Product Dispenser	Gasoline	8/4/2001		Removed			7/8/2002
NS-Various	NS-PORT-AST-01			Navfac Mid-Atlantic, Utilities	Single Walled Steel	300	Supplies fuel to portable pump	Diesel			REMOVED	NONE		
NS-Various	NS-PORT-AST-02			Navfac Mid-Atlantic, Utilities	Single Walled Steel	300	Supplies fuel to portable pump	Diesel			REMOVED	NONE		
NS-Various	NS-PORT-AST-03			Navfac Mid-Atlantic, Utilities	Single Walled Steel	500	Supplies fuel to portable pump	Diesel			REMOVED	NONE		
NS-Q1	NS-Q1-UST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	550	Emergency Generator Supply	Gasoline	1/1/1979	12/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND	11/11/1994	2/9/1994
NS-Q50	NS-Q50-AST-01	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled Steel	10,000	Used Oil Storage	Used Oil	1/1/1988		Active	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-02	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled Steel	10,000	Used Oil Storage	Used Oil	1/1/1988		Active	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-03	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled FRP	10,643	Used Oil Storage	Used Oil	1/1/1988		Active	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-04	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled FRP	10,643	Used Oil Storage	Used Oil	1/1/1988		Temporarily Out of Use	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-05	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled FRP	11,403	Used Oil Storage	Used Oil	1/1/1973		Active	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-06	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled FRP	11,403	Used Oil Storage	Used Oil	1/1/1988		Active	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-07	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled FRP	11,403	Used Oil Storage	Used Oil	1/1/1988		Active	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-08	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled Steel	11,403	Used Oil Storage	Used Oil	1/1/1988		Temporarily Out of Use	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-09	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled Steel	10,000	Used Oil Storage	Used Oil	1/1/1988		Active	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-10	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled Steel	10,000	Used Oil Storage	Used Oil	1/1/1988		Active	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-11	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled Steel	10,000	Used Oil Storage	Used Oil	1/1/1988		Active	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-12	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled FRP	11,403	Used Oil Storage	Used Oil	1/1/1988		Active	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-13	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled FRP	11,403	Used Oil Storage	Used Oil	1/1/1988		Active	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-14	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled FRP	11,403	Used Oil Storage	Used Oil	1/1/1993		Active	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-17	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	FRP	4,000	Used Oil Storage	Used Oil	1/1/1996		REMOVED	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-19	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled Steel	2,000	Used Oil Storage	Used Oil			Removed	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-21	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled Steel	2,000	Used Oil Storage	Used Oil			Removed	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-22	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled Steel	2,000	Used Oil Storage	Used Oil			Temporarily Out of Use	CURRENTLY IN USE		
NS-Q50	NS-Q50-AST-23			Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled Steel	2,000	Used Oil Storage	Used Oil			Temporarily Out of Use	NONE		
NS-Q50	NS-Q50-AST-25	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled Steel	2,000	Used Oil Storage	Used Oil			REMOVED	PERMANENTLY OUT OF USE	9/3/1998	8/28/1998
NS-Q50	NS-Q50-AST-27	5023169	15689	Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled Steel	2,000	Used Oil Storage	Used Oil			Removed	CURRENTLY IN USE		
NS-Q50C	NS-Q50C-AST-01	0	0	Navfac Mid-Atlantic, Environmental - Oil Recovery	Double Walled Steel	2,000	Used Oil Storage	Used Oil			Active			
NS-Q50C	NS-Q50C-AST-02	0	0	Navfac Mid-Atlantic, Environmental - Oil Recovery	Double Walled Steel	2,000	Used Oil Storage	Used Oil			Active			
NS-Q50C	NS-Q50C-AST-03	0	0	Navfac Mid-Atlantic, Environmental - Oil Recovery	Double Walled Steel	2,000	Used Oil Storage	Used Oil			Active			
NS-Q50C	NS-Q50C-AST-04	0	0	Navfac Mid-Atlantic, Environmental - Oil Recovery	Double Walled Steel	2,000	Used Oil Storage	Used Oil			Active			

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
NS-Q50C	NS-Q50C-AST-05	0	0	Navfac Mid-Atlantic, Environmental - Oil Recovery	Double Walled Steel	2,000	Used Oil Storage	Used Oil			Active			
NS-Q50C	NS-Q50C-AST-06	0	0	Navfac Mid-Atlantic, Environmental - Oil Recovery	Double Walled Steel	2,000	Used Oil Storage	Used Oil			Active			
NS-Q50C	NS-Q50C-AST-07	0	0	Navfac Mid-Atlantic, Environmental - Oil Recovery	Double Walled Steel	2,000	Used Oil Storage	Used Oil			Active			
NS-Q50C	NS-Q50C-AST-08	0	0	Navfac Mid-Atlantic, Environmental - Oil Recovery	Double Walled Steel	2,000	Used Oil Storage	Used Oil			Active			
NS-Q50F	NS-Q50F-AST-01			Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled Steel	275	Product Dispenser	Diesel			Removed	NONE		
NS-Q50F	NS-Q50F-AST-02			Navfac Mid-Atlantic, Environmental - Oil Recovery	Single Walled Steel	275	Product Dispenser	Gasoline			Removed	NONE		
NS-Q50F	NS-Q50F-AST-03	0	0	Navfac Mid-Atlantic, Environmental - Oil Recovery	Double Walled Steel in Concrete	275	Product Dispenser	Diesel	1/1/2000		Active			
NS-Q50F	NS-Q50F-AST-04	0	0	Navfac Mid-Atlantic, Environmental - Oil Recovery	Double Walled Steel in Concrete	275	Product Dispenser	Gasoline	1/1/2000		Active			
NS-Q50F	NS-Q50F-AST-05			Harbor Patrol	Double Walled Steel in Concrete	500	Product Dispenser	Gasoline	8/31/2002		Active	NONE		
NS-Q50F	NS-Q50F-AST-06	0	0	Harbor Patrol	Double Walled Steel in Concrete	1,000	Product Dispenser	Diesel	8/31/2002		Active			
NS-Q57	NS-Q57-AST-01			Magnetic Silencing Facility	Double Walled Steel in Concrete	250	Equipment Fueling	Gasoline	1/1/1997		REMOVED	NONE		
NS-Q65	NS-Q65-UST-01	5023169	15689	Navfac Mid-Atlantic, Transportation	FRP	10,000	Fuel dispensing	Gasoline	1/1/1979	11/1/1995	REMOVED FROM GRO	REMOVED FROM GROUND	1/3/1996	11/13/1995
NS-Q65	NS-Q65-UST-02	5023169		Navfac Mid-Atlantic, Transportation	FRP	10,000	Fuel dispensing	Gasoline	1/1/1979	11/1/1995	REMOVED FROM GRO	REMOVED FROM GROUND	1/3/1996	11/15/1995
NS-Q65	NS-Q65-UST-03	5023169	15689	Navfac Mid-Atlantic, Transportation	Single Walled Steel	10,000	Vehicle fueling	Diesel	1/1/1973	11/1/1995	REMOVED FROM GRO	REMOVED FROM GROUND	1/3/1996	11/17/1995
NS-Q72	NS-Q72-AST-01			Navfac Mid-Atlantic	Single Walled Steel	275	Equipment fueling	Diesel			REMOVED	NONE		
NS-Q72	NS-Q72-AST-02			Navfac Mid-Atlantic	Single Walled Steel	125	Equipment fueling	Gasoline			REMOVED	NONE		
NS-Q72	NS-Q72-AST-03			Navfac Mid-Atlantic	Single Walled Steel	275	Equipment fueling	Kerosene			Removed	NONE		
NS-Q72	NS-Q72-AST-04	5023169	15689	Wharf Building and Repair	Double Bottomed Steel	1,000	Product Dispenser	Diesel			Active	CURRENTLY IN USE		
NS-Q76	NS-Q76-AST-01			Navfac Mid-Atlantic, Transportation	Single Walled Steel	250	Emergency Generator Supply	Diesel			REMOVED	NONE		
NS-Q78	NS-Q78-AST-01			McDonalds	Single Walled Steel	550	Emergency Generator Base Tank	Diesel			Active			
NS-Q78	NS-Q78-AST-02	0	0	McDonalds	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-Q81	NS-Q81-AST-00			Navfac Mid-Atlantic, Utilities	Single Walled Steel	75	Emergency Generator Supply	Diesel			Removed	NONE		
NS-Q81	NS-Q81-AST-01			Navfac Mid-Atlantic, Utilities	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	4/1/1994		Active	NONE		
NS-Q81	NS-Q81-UST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	550	Emergency Generator Supply	Diesel	1/1/1974	12/1/1990	REMOVED FROM GRO	REMOVED FROM GROUND	9/9/1994	1/26/1994
NS-Q82	NS-Q82-AST-01			Navfac Mid-Atlantic, Transportation	Single Walled Steel	520	Emergency Generator Supply	Diesel			REMOVED	NONE		
NS-Q83	NS-Q83-AST-01	0	0		PLASTIC	525	COMPRESSOR WATER	Oily Water			REMOVED	NONE		
NS-Q84	NS-Q84-AST-01			Navfac Mid-Atlantic, Transportation	Unknownnown	275	Heating System Supply	No. 2 Fuel Oil			REMOVED	NONE		
NS-Q95	NS-Q95-AST-01			Navfac Mid-Atlantic, Utilities	Single Walled Steel	75	Emergency Generator Supply	Diesel			Removed	NONE		
NS-Q95	NS-Q95-AST-02			Navfac Mid-Atlantic, Utilities	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	4/1/1996		Active	NONE		
NS-Q95	NS-Q95-UST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	FRP	1,000	Emergency Generator Supply	Diesel	1/1/1984	6/9/1996	Closed in Ground	CLOSED IN GROUND	4/3/1997	11/20/1996
NS-Q99	NS-Q99-AST-04	0	0	Navfac Mid-Atlantic, Environmental - Recycling	Single Walled Steel	550	Heating System Supply	No. 2 Fuel Oil			Removed	NONE		
NS-Q99	NS-Q99-AST-05	0	0	Navfac Mid-Atlantic, Environmental - Recycling	Double Walled Steel in Concrete	500	Heating System Supply	Diesel	1/1/2000		Active			
NS-Q99	NS-Q99-UST-00	5019377	15100	Navfac Mid-Atlantic, Environmental - Recycling	Unknownnown	1,000	Heating System Supply	No. 2 Fuel Oil	4/9/1984		POS	CURRENTLY IN USE		
NS-Q99	NS-Q99-UST-01	5019377	15100		Unknownnown	1,000		Gasoline	4/9/1984	2/11/1992	REMOVED FROM GRO	CURRENTLY IN USE		2/11/1992
NS-Q99	NS-Q99-UST-02	5019377	15100		Unknownnown	1,000		Gasoline	4/9/1984	2/11/1992	REMOVED FROM GRO	CURRENTLY IN USE		2/11/1992
NS-Q99	NS-Q99-UST-03	5019377	15100		Unknownnown	500		Gasoline	4/9/1984	2/11/1992	REMOVED FROM GRO	CURRENTLY IN USE		2/11/1992
NS-	NS-R100-UST	5019360	15689		Unknownnown	280		Gasoline	2/24/1984	4/1/1992	REMOVED FROM GRO	CURRENTLY IN USE	10/14/1993	1/19/1993
NS-	NS-R112-1-UST	5019360	15689		Unknownnown	13,900		Gasoline	2/24/1950	7/1/1989	REMOVED FROM GRO	CURRENTLY IN USE		3/1/1990
NS-	NS-R112-2-UST	5019360	15689		Unknownnown	13,900		Gasoline	2/24/1950	7/1/1989	REMOVED FROM GRO	CURRENTLY IN USE		3/1/1990
NS-	NS-R112-3-UST	5019360	15689		Unknownnown	3,000		Diesel	2/24/1950	7/1/1989	REMOVED FROM GRO	CURRENTLY IN USE		3/1/1990
NS-	NS-R117-1-UST	5019360	15689		Unknownnown	1,000		Kerosene	2/24/1973	12/3/1992	REMOVED FROM GRO	CURRENTLY IN USE	10/14/1993	1/19/1993
NS-	NS-R117-2-UST	5019360	15689		Unknownnown	1,000		Gasoline	2/24/1973	12/3/1992	REMOVED FROM GRO	CURRENTLY IN USE	10/14/1993	1/19/1993
NS-	NS-R127A-UST	5019388	12791		Unknownnown	500		No. 2 Fuel Oil	1/1/1974	4/1/1993	REMOVED FROM GRO	CURRENTLY IN USE	12/27/1993	4/1/1993
NS-	NS-R127B-UST	5019388	12791		FRP	850		Used Oil	11/17/1974	4/1/1993	REMOVED FROM GRO	CURRENTLY IN USE	12/27/1993	4/1/1993
NS-	NS-R127C-UST	5019388	12791		FRP	850		10/10 Oil	11/17/1974	1/1/1975	REMOVED FROM GRO	CURRENTLY IN USE	12/27/1993	4/1/1993
NS-	NS-R12A-UST	5019360	15689		Unknownnown	500		Diesel		11/1/1992	REMOVED FROM GRO	CURRENTLY IN USE	10/14/1993	11/10/1992
NS-	NS-R132A-UST	5019388	12791		Unknownnown	1,000		Unknownnown	1/1/1952	10/1/1990	REMOVED FROM GRO	CURRENTLY IN USE		10/1/1990
NS-	NS-R132C-UST	5019388	12791		Unknownnown	5,000		Waste Heptane	1/1/1958	6/1/1990	REMOVED FROM GRO	CURRENTLY IN USE		6/1/1990
NS-	NS-R132D-UST	5019388	12791		Unknownnown	5,000		Heptane	1/1/1958	1/1/1980	REMOVED FROM GRO	CURRENTLY IN USE		1/1/1980
NS-	NS-R132E-UST	5019388	12791		Unknownnown	5,000		Waste Heptane	1/1/1958	8/1/1990	REMOVED FROM GRO	CURRENTLY IN USE		8/1/1990
NS-	NS-R132F-UST	5019388	12791		Unknownnown	5,000		Heptane	1/1/1958	6/1/1990	REMOVED FROM GRO	CURRENTLY IN USE		6/1/1990
NS-	NS-R132G-UST	5019388	12791		Unknownnown	5,000		Heptane	1/1/1958	6/1/1990	REMOVED FROM GRO	CURRENTLY IN USE		6/1/1990
NS-	NS-R132H-UST	5019388	12791		Unknownnown	5,000		Waste Heptane	1/1/1952	10/1/1990	REMOVED FROM GRO	CURRENTLY IN USE		10/1/1990
NS-	NS-R132I-UST	5019388	12791		Unknownnown	5,000		Heptane	1/1/1952	8/1/1990	REMOVED FROM GRO	CURRENTLY IN USE		8/1/1990
NS-	NS-R132J-UST	5019388	12791		Unknownnown	5,000		Waste Heptane	1/1/1952	5/1/1990	REMOVED FROM GRO	CURRENTLY IN USE		5/1/1990
NS-	NS-R132K-UST	5019388	12791		Unknownnown	5,000		Heptane	1/1/1952	10/1/1990	REMOVED FROM GRO	CURRENTLY IN USE		10/1/1990
NS-	NS-R132L-UST	5019388	12791		Unknownnown	5,000		Heptane	1/1/1952	5/1/1990	REMOVED FROM GRO	CURRENTLY IN USE		5/1/1990
NS-	NS-R132M-UST	5019388	12791		Unknownnown	5,000		Heptane	1/1/1952	10/1/1990	REMOVED FROM GRO	CURRENTLY IN USE		10/1/1990
NS-	NS-R132N-UST	5019388	12791		Unknownnown	5,000		Heptane	1/1/1958	11/1/1989	REMOVED FROM GRO	CURRENTLY IN USE		11/1/1989
NS-	NS-R146A-UST	5019388	12791		FRP	550		Used Oil	11/17/1969	12/31/1981	REMOVED FROM GRO	CURRENTLY IN USE		12/31/1981
NS-	NS-R146-UST	5019388	12791		FRP	4,000		Used Oil	1/1/1982	4/1/1993	REMOVED FROM GRO	CURRENTLY IN USE	12/27/1993	4/1/1993
NS-	NS-R167-1-UST	5019388	12791		Unknownnown	10,000		Fuel Oil	11/17/1971	5/1/1993	REMOVED FROM GRO	CURRENTLY IN USE	12/27/1993	5/1/1993
NS-	NS-R167-2-UST	5019388	12791		Unknownnown	10,000		Fuel Oil	11/17/1971	5/1/1993	REMOVED FROM GRO	CURRENTLY IN USE	12/27/1993	5/1/1993
NS-	NS-R188-UST	5019360	15689		Unknownnown	1,000		Used Oil	1/1/1979	1/1/1991	REMOVED FROM GRO	CURRENTLY IN USE	10/14/1993	1/19/1993
NS-	NS-R19-1-UST	5019360	15689		Unknownnown	5,000		Gasoline	3/18/1979	12/31/1987	REMOVED FROM GRO	CURRENTLY IN USE		1/13/1992
NS-	NS-R19-2-UST	5019360	15689		Unknownnown	1,500		Used Oil		12/31/1987	REMOVED FROM GRO	CURRENTLY IN USE		1/13/1992
NS-	NS-R1-UST	5019360	15689		Unknownnown	550		Diesel	1/1/1974	10/25/1994	REMOVED FROM GRO	CURRENTLY IN USE		11/16/1994
NS-	NS-R22C-UST	5019388	12791		Unknownnown	1,000		Used Oil		12/31/1988	REMOVED FROM GRO	CURRENTLY IN USE		4/30/1991
NS-	NS-R22D-UST	5019388	12791		Unknownnown	1,000		HAZARD	4/17/1946	12/31/1988	REMOVED FROM GRO	CURRENTLY IN USE		4/30/1991
NS-	NS-R22E-UST	5019388	12791		Unknownnown	1,000		Lube Oil		4/30/1991	REMOVED FROM GRO	CURRENTLY IN USE		4/30/1991
NS-	NS-R250-UST	5019360	15689		FRP	550		Gasoline	1/1/1985	12/18/1994	REMOVED FROM GRO	CURRENTLY IN USE	1/31/1995	12/19/1994
NS-	NS-R27A-UST	5019388	12791		Unknownnown	13,000		Gasoline	11/17/1933	10/1/1990	REMOVED FROM GRO	CURRENTLY IN USE		10/1/1990
NS-	NS-R27B-UST	5019388	12791		Unknownnown	530		Used Oil	11/17/1942	4/30/1991	REMOVED FROM GRO	CURRENTLY IN USE		4/30/1991
NS-	NS-R28B-UST	5019388	12791		Unknownnown	280		Used Oil	11/17/1972	1/1/1983	REMOVED FROM GRO	CURRENTLY IN USE	12/27/1993	4/1/1993
NS-	NS-R28C-UST	5019388	12791		Unknownnown	550		Used Oil	11/17/1972	3/1/1991	REMOVED FROM GRO	CURRENTLY IN USE	12/27/1993	4/1/1993
NS-	NS-R314-1-UST	5019360	15689		Unknownnown	2,000		Gasoline	1/1/1969	12/31/1984	REMOVED FROM GRO	CURRENTLY IN USE		12/9/1991
NS-	NS-R34-1-UST	5019360	15689		Unknownnown	550		Used Oil	3/18/1977	12/1/1990	REMOVED FROM GRO	CURRENTLY IN USE		11/24/1991
NS-	NS-R37-UST	5019360	15689		Unknownnown	500		Gasoline		1/1/1993	REMOVED FROM GRO	CURRENTLY IN USE	10/14/1993	1/19/1993
NS-	NS-R38-UST	5019388	12791		Unknownnown	550		Used Oil	1/1/1971	4/1/1993	REMOVED FROM GRO	CURRENTLY IN USE	12/27/1993	4/1/1993
NS-R43	NS-R43-AST-01			Fire Station #2	Double Walled Steel in Concrete	250	Product Dispenser	Diesel	1/1/1995		Active	NONE		
NS-R43	NS-R43-AST-02	0	0	Fire Station #2	Single Walled Steel	55	Emergency Generator Base Tank	Diesel			Active			

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
NS-	NS-R48G-UST	5019388	12791		Unknownnown	5,000		Used Oil	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-	NS-R48I-UST	5019388	12791		Unknownnown	5,000		Used Oil	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-	NS-R48J-UST	5019388	12791		Unknownnown	5,000		Used Oil	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-	NS-R48K-UST	5019388	12791		Unknownnown	5,000		Used Oil	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-	NS-R48L-UST	5019388	12791		Unknownnown	5,000		Used Oil	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-	NS-R48M-UST	5019388	12791		Unknownnown	5,000		Used Oil	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-	NS-R48N-UST	5019388	12791		Unknownnown	5,000		Used Oil	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-	NS-R48P-UST	5019388	12791		Unknownnown	5,000		Used Oil	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-	NS-R48Q-UST	5019388	12791		Unknownnown	5,000		Used Oil	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-R48	NS-R48-UST-01	5019388	12791		shown by state as concrete	8,000		HAZARD	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-R48	NS-R48-UST-02	5019388	12791		shown by state as concrete	8,000		HAZARD	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-R48	NS-R48-UST-03	5019388	12791		Unknownnown	5,000		Used Oil	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-R48	NS-R48-UST-04	5019388	12791		Unknownnown	5,000		Used Oil	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-R48	NS-R48-UST-05	5019388	12791		Unknownnown	5,000		Used Oil	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-R48	NS-R48-UST-06	5019388	12791		Unknownnown	5,000		Used Oil	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-R48	NS-R48-UST-08	5019388	12791		Unknownnown	5,000		Used Oil	4/17/1946	12/31/1982	REMOVED FROM GROU	CURRENTLY IN USE		12/31/1988
NS-	NS-R4-UST	5023988	13253		Unknownnown	550		Used Oil		1/1/1985	REMOVED FROM GROU	CURRENTLY IN USE		1/16/1992
NS-	NS-R53-UST	5019388	12791		Unknownnown	280		Used Oil	1/1/1980	4/1/1993	REMOVED FROM GROU	CURRENTLY IN USE	12/27/1993	4/1/1993
NS-	NS-R5-UST	5023988	13253		Unknownnown	2,000		Used Oil		1/1/1985	REMOVED FROM GROU	CURRENTLY IN USE		1/21/1992
NS-	NS-R71A-UST	5019360	15689		Unknownnown	1,000		Kerosene	2/24/1957	12/1/1987	REMOVED FROM GROU	CURRENTLY IN USE		12/1/1987
NS-	NS-R74-UST	5019360	15689		Unknownnown	550		Diesel	1/1/1962	11/27/1994	REMOVED FROM GROU	CURRENTLY IN USE	1/31/1995	11/28/1994
NS-	NS-R78A-UST	5019388	12791		Unknownnown	1,000		Used Oil	11/17/1961	4/30/1991	REMOVED FROM GROU	CURRENTLY IN USE		4/30/1991
NS-	NS-R78B-UST	5019388	12791		Unknownnown	1,000		Used Oil	11/17/1961	4/30/1991	REMOVED FROM GROU	CURRENTLY IN USE		4/30/1991
NS-	NS-R79B-1-UST	5019360	15689		Unknownnown	11,983		Diesel	2/25/1948	6/1/1990	REMOVED FROM GROU	CURRENTLY IN USE		1/15/1992
NS-	NS-R79B-2-UST	5019360	15689		Unknownnown	16,738		Gasoline	2/25/1947	11/10/1994	REMOVED FROM GROU	CURRENTLY IN USE	12/28/1994	11/10/1994
NS-	NS-R79B-3-UST	5019360	15689		Unknownnown	16,738		Gasoline	2/25/1947	11/10/1994	REMOVED FROM GROU	CURRENTLY IN USE	12/28/1994	11/10/1994
NS-	NS-R79B-4-UST	5019360	15689		Unknownnown	550		Diesel		12/31/1985	REMOVED FROM GROU	CURRENTLY IN USE		1/15/1992
NS-	NS-R93-1-UST	5019360	15689		Unknownnown	5,000		Used Oil	2/25/1947	7/1/1989	REMOVED FROM GROU	CURRENTLY IN USE		3/1/1990
NS-	NS-R93-2-UST	5019360	15689		Unknownnown	5,000		Used Oil	2/25/1947	7/1/1989	REMOVED FROM GROU	CURRENTLY IN USE		3/1/1990
NS-	NS-R93-3-UST	5019360	15689		Unknownnown	5,000		Used Oil	2/25/1947	7/1/1989	REMOVED FROM GROU	CURRENTLY IN USE		3/1/1990
NS-SC413	NS-SC413-AST-01			ERC (Contractor)	Double Walled Steel	125	Remediation System Recovered Oil Storage	Recovered Oil	1/1/1995		Active	NONE		
NS-SDA205	NS-SDA205-AST-01				Unknownnown	250		Diesel			Unknown	NONE		
NS-SDA209	NS-SDA209-UST-03	5019383	15688		Unknownnown	1,100		Diesel	1/27/1946		REMOVED FROM GROU	CURRENTLY IN USE		12/1/1991
NS-SDA209	NS-SDA209-UST-04	5019383	15688		Unknownnown	2,000		Diesel	1/27/1946		REMOVED FROM GROU	CURRENTLY IN USE		12/1/1991
NS-SDA213	NS-SDA213-AST-01	5023169	15689	Fleet Industrial Supply Center	Double Walled Steel in Concrete	1,000	Heating System Supply	No. 2 Fuel Oil	3/1/1995		Active	CURRENTLY IN USE		
NS-SDA213	NS-SDA213-UST-01	5019377	15100	Navy Exchange - Retail Shops	Unknownnown	1,500	Heating System Supply	No. 2 Fuel Oil	1/1/1975	5/1/1997	REMOVED FROM GROU	REMOVED FROM GROUND	6/26/1997	6/6/1997
NS-SDA229	NS-SDA229-AST-01			Navfac Mid-Atlantic, Utilities	Unknownnown	500					REMOVED	NONE		
NS-SDA248	NS-SDA248-UST-01	5019383	15688		Unknownnown	2,500		Diesel	1/27/1946		REMOVED FROM GROU	CURRENTLY IN USE		12/1/1991
NS-SDA295	NS-SDA295-UST-01	5019383	15688		Unknownnown	2,700		Gasoline	1/27/1946		REMOVED FROM GROU	CURRENTLY IN USE		
NS-SDA299	NS-SDA299-UST-01	5019383	15688		Unknownnown	2,000		Diesel	1/27/1946		REMOVED FROM GROU	CURRENTLY IN USE		12/1/1991
NS-SDA309	NS-SDA309-AST-01			Fire Fighting School	Double Walled Steel in Concrete	500	Product Dispenser	Gasoline	1/1/1996		Active	NONE		
NS-SDA323	NS-SDA323-AST-01	5023169	15689	Fire Fighting School, Norfolk	Single Walled Steel	4,500	Waste oil storage	Used Oil			REMOVED	CURRENTLY IN USE		
NS-SDA323	NS-SDA323-UST-01			Fire Fighting School, Norfolk	Unknownnown	15,000	Bulk Storage	Gasoline			REMOVED FROM GROU	none		
NS-SDA323	NS-SDA323-UST-02			Fire Fighting School, Norfolk	Unknownnown	20,000	Bulk Storage	Diesel			REMOVED FROM GROU	none		
NS-SDA323	NS-SDA323-UST-03			Fire Fighting School, Norfolk	Unknownnown	2,000	Bulk Storage	Diesel			REMOVED FROM GROU	none		
NS-SDA332	NS-SDA332-AST-01	5023169	15689	Child Development Center	Single Walled Steel	1,000	Emergency Generator Supply	Diesel			Active			
NS-SDA334	NS-SDA334-AST-02	5023169	15689	Fire Fighting School, Norfolk	Double Walled Steel in Concrete	1,000	Heating System Supply	No. 2 Fuel Oil	1/1/1995		REMOVED	CURRENTLY IN USE		
NS-SDA334	NS-SDA334-UST-01	5019383	15688		Unknownnown	2,000		No. 2 Fuel Oil	1/27/1946		REMOVED FROM GROU	CURRENTLY IN USE		
NS-	NS-SEP1-UST	5019383	15688		Unknownnown	5,000		Oily Water	1/27/1966		NONE	CURRENTLY IN USE		
NS-SP38	NS-SP10-AST-01			SP-10	Unknownnown	500	Waste oil storage	Used Oil	1/1/1997		Removed from Ground	NONE		8/7/2000
NS-SP112	NS-SP112-AST-01			ERC (Contractor)	Double Walled Steel in Concrete	250	Remediation System Recovered Oil Storage	Recovered Oil	1/1/1997		Removed	NONE		
NS-SP123	NS-SP123-UST-01	0	0		Unknownnown	600	WASTE OIL COLLECTION	Unknownnown			TEMPORARILY OUT OF	none		
NS-SP1	NS-SP1-AST-01			Carrier Airborne Early Warning	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1997		Removed	NONE		
NS-SP233	NS-SP233-AST-01	0	0	First Lieutenant	Double Walled Steel in Concrete	500	Product Dispenser	Gasoline	8/29/2000		Active	NONE		
NS-SP28	NS-SP28-AST-01	0	0	Taco Bell	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-SP2	NS-SP2-AST-01	0	0		Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/11/2003		Removed			
NS-SP313	NS-SP313-AST-01	5023169	15689	Aircraft Intermediate Maintenance Department	Single Walled Steel	1,000	Engine Test Supply	JP-5			Active	CURRENTLY IN USE		
NS-SP313	NS-SP313-AST-02	5023169	15689	Aircraft Intermediate Maintenance Department	Single Walled Steel	1,000	Engine Test Supply	JP-5			Active	CURRENTLY IN USE		
NS-SP313	NS-SP313-AST-03	5023169	15689	Aircraft Intermediate Maintenance Department	Single Walled Steel	1,000	Engine Test Supply	JP-5			Active	CURRENTLY IN USE		
NS-SP313	NS-SP313-AST-04	5023169	15689	Aircraft Intermediate Maintenance Department	Single Walled Steel	1,000	Engine Test Supply	JP-5			Active	CURRENTLY IN USE		
NS-SP313	NS-SP313-AST-05			Aircraft Intermediate Maintenance Department	Single Walled Steel	1,000	Engine Test Supply	JP-5			Active	Currently in use		
NS-SP314	NS-SP314-AST-01			Aircraft Intermediate Maintenance Department	Double Walled Steel in Concrete	500	Product Dispenser	Diesel	1/1/1996		REMOVED	NONE		
NS-SP355	NS-SP355-AST-01	5023169	15689	Navfac Mid-Atlantic, Utilities - Steam Commodity	Single Walled Steel	145,720	Heating System Supply	No. 2 Fuel Oil	1/1/1979		Active	CURRENTLY IN USE		
NS-SP356	NS-SP356-AST-01A			Aircraft Intermediate Maintenance Department	Double Walled Steel in Concrete	250	Product Dispenser	JP-5	1/1/1996		Active	NONE		
NS-SP356	NS-SP356-AST-01B			Aircraft Intermediate Maintenance Department	Double Walled Steel in Concrete	250	Product Dispenser	Gasoline	1/1/1996		Active	NONE		
NS-SP356	NS-SP356-AST-03	0	0	Aircraft Intermediate Maintenance Department	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1998		Active	NONE		
NS-SP356	NS-SP356-UST-00	5019360	15689		Double Walled FRP	550		Used Oil	1/1/1988	8/1/1993	REMOVED FROM GROU	CURRENTLY IN USE	3/29/1996	5/24/1995
NS-SP356	NS-SP356-UST-02	5019360	15689	Aircraft Intermediate Maintenance Department	Double Walled FRP	600	Used Oil Storage	Used Oil	5/22/1995		Active	CURRENTLY IN USE		
NS-SP35	NS-SP35-AST-01	0	0	Helicopter Combat Support Squadrons Two & Four - Maintena	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	11/1/2003		Active			
NS-SP362	NS-SP362-UST-01	5019360	15689		Unknownnown	550	Used Oil Storage	WASTE HYDRAULIC FLUI	2/24/1974	4/20/1995	REMOVED FROM GROU	CURRENTLY IN USE	6/16/1995	4/20/1995
NS-SP362	NS-SP362-UST-02	5019360	15689	COMAEWINGLANT	Double Walled FRP	500	Used Oil Storage	Used Oil	5/1/1995		Removed from Ground	CURRENTLY IN USE		12/6/2002
NS-SP366	NS-SP366-UST-01	5019360	15689		Unknownnown	550		Used Oil	2/24/1977	4/20/1995	REMOVED FROM GROU	CURRENTLY IN USE	3/29/1996	4/27/1995
NS-SP366	NS-SP366-UST-02	5019360	15689	COMAEWINGLANT	Double Walled FRP	500	Used Oil Storage	Used Oil	4/1/1995		Active	CURRENTLY IN USE		
NS-SP368	NS-SP368-AST-01			Navfac Mid-Atlantic, Utilities	Double Walled Steel in Concrete	550	Emergency Generator Supply	Diesel	4/1/1994		Active	NONE		
NS-SP368	NS-SP368-AST-02			Navfac Mid-Atlantic, Utilities	Single Walled Steel	75	Emergency Generator Supply	Diesel			Removed	NONE		
NS-SP368	NS-SP368-UST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	1,000	Emergency Generator Supply	Diesel	1/1/1979	1/1/1988	REMOVED FROM GROU	REMOVED FROM GROUND		2/17/1994
NS-SP313	NS-SP38-AST-01	0	0	Aircraft Intermediate Maintenance Department	Double Walled Steel in Concrete	250	Used Oil Storage	Used Oil			Active	NONE		
NS-SP38	NS-SP38-UST-01			Aircraft Intermediate Maintenance Department	Unknownnown	500	Used Oil Storage				Removed from Ground	NONE		8/8/2000
NS-SP45	NS-SP45-AST-01	0	0	Breezy Point Officers Club	Single Walled Steel	200	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-SP73	NS-SP73-AST-01	0	0	Naval Air Station, Norfolk	Double Walled Steel in Concrete	1,000	Emergency Generator Supply	Diesel	12/1/2002		Active			
NS-SP73	NS-SP73-AST-02	0	0	Naval Air Station, Norfolk	Single Walled Steel	55	Emergency Generator Day Tank	Diesel			Active			

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
NS-SP77	NS-SP77-AST-02			Air Operations Department TACAN	Double Walled Steel in Concrete	250	Emergency Generator Supply	Diesel	1/1/1995		Active	NONE		
NS-SP77	NS-SP77-UST-01	5023169	15689		Unknownnown	275		Diesel	6/1/1971	11/30/1994	REMOVED FROM GROU	CURRENTLY IN USE	1/23/1995	12/1/1994
NS-SP85	NS-SP85-UST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled FRP	8,000	Emergency Spill Containment	Used Oil	3/7/1984		Active	CURRENTLY IN USE		
NS-SP97	NS-SP97-AST-01			Navfac Mid-Atlantic, Utilities	Double Walled Steel in Concrete	550	Emergency Generator Supply	Diesel	4/1/1994		Active	NONE		
NS-SP97	NS-SP97-UST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	FRP	550	Emergency Generator Supply	Diesel	1/1/1983	1/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND		2/17/1994
NS-	NS-SUB-UST	5023169	15689		Unknownnown	14,000		Diesel		6/1/1980	Closed in Ground	CLOSED IN GROUND		6/1/1980
NS-	NS-SUC-UST	5023169	15689		Unknownnown	24,000		Diesel		6/1/1980	Closed in Ground	CLOSED IN GROUND		6/1/1980
NS-T26A	NS-T26A-AST-01			Navfac Mid-Atlantic, Maintenance	Single Walled Steel	275	Emergency Generator Supply	Diesel			Removed	NONE		11/19/2001
NS-T26A	NS-T26A-AST-02	0	0	Navfac Mid-Atlantic, Maintenance	Double Walled Steel in Concrete	250	Emergency Generator Supply	Diesel	11/19/2001		Active			
NS-U Area	NS-U Area-AST-01	5023169	15689	Navfac Mid-Atlantic, Transportation	Double Walled Steel in Concrete	6,000	Product Dispenser	Diesel	4/23/1996		Removed	CURRENTLY IN USE		
NS-U113	NS-U113-AST-04	5023169	15689	Navy Exchange - Retail Shops	Double Walled Steel in Concrete	1,000	Used Oil Storage	Used Oil	2/1/1995		Removed	CURRENTLY IN USE		
NS-U113	NS-U113-AST-05			Navy Exchange - Gas Station	Double Walled Steel in Concrete	6,000	Product Dispenser	Diesel	1/1/1998		Active	CURRENTLY IN USE		
NS-U113	NS-U113-UST-00			Navy Exchange - Gas Station	Unknownnown	550	Waste oil storage	Used Oil			REMOVED	none		
NS-U113	NS-U113-UST-01	5019360	15689	Navy Exchange - Gas Station	Double Walled FRP	15,000	Product Dispenser	Gasoline	2/1/1995		Active	CURRENTLY IN USE		
NS-U113	NS-U113-UST-02	5019360	15689	Navy Exchange - Gas Station	Double Walled FRP	15,000	Product Dispenser	Gasoline	2/1/1995		Active	CURRENTLY IN USE		
NS-U113	NS-U113-UST-03	5019360	15689	Navy Exchange - Gas Station	Double Walled FRP	6,000	Product Dispenser	Gasoline	2/1/1995		Active	CURRENTLY IN USE		
NS-U115	NS-U115-AST-01			Morale Welfare & Recreation - Auto Hobby Shop	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil			Removed	NONE		
NS-U117	NS-U117-UST-01	5019360	15689	Naval Atlantic Meteorology & Oceanography Center	Double Walled FRP	2,500	Emergency Generator Supply	Diesel	1/1/1990		Active	CURRENTLY IN USE		
NS-U126	NS-U126-AST-01			Morale, Welfare, and Recreation Hobbie Shop	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	2/1/2003		Active	NONE		
NS-U127	NS-U127-AST-01	0	0	NAS Oceana Air Department	Single Walled Steel	500	Heating System Supply	No. 2 Fuel Oil			Removed	NONE		
NS-U128	NS-U128-UST-01	5023169	15689	Universal Fuel, Inc. (Contractor)	FRP	10,000	Fuel dispensing	Used Oil	1/1/1990	11/16/1998	REMOVED FROM GROU	none		11/16/1998
NS-U128	NS-U128-UST-02	5023169	15689	Universal Fuel, Inc. (Contractor)	FRP	4,000	Fuel dispensing	Diesel	1/1/1990	11/16/1998	REMOVED FROM GROU	none		11/16/1998
NS-U128	NS-U128-UST-03	5023169	15689	Universal Fuel, Inc. (Contractor)	FRP	10,000	Fuel dispensing	Diesel	1/1/1990	11/16/1998	REMOVED FROM GROU	none		11/16/1998
NS-U128	NS-U128-UST-04	5023169	15689	Universal Fuel, Inc. (Contractor)	FRP	15,000	Waste oil storage	Gasoline	1/1/1990	11/16/1998	REMOVED FROM GROU	none		11/16/1998
NS-U130	NS-U130-AST-02			Navfac Mid-Atlantic, Utilities	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	4/23/1996		Active	NONE		
NS-U130	NS-U130-UST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	750	Emergency Generator Supply	Diesel	1/1/1979	5/12/1996	REMOVED FROM GROU	REMOVED FROM GROUND	4/3/1997	11/22/1996
NS-U132	NS-U132-UST-01	5019388	12791		Double Walled FRP	10,000		Heptane	6/1/1990	8/19/1996	REMOVED FROM GROU	CURRENTLY IN USE	3/27/1997	8/19/1996
NS-U132	NS-U132-UST-02	5019388	12791		Double Walled FRP	10,000		Heptane	6/1/1990	8/21/1996	REMOVED FROM GROU	CURRENTLY IN USE	3/27/1997	8/21/1996
NS-U132	NS-U132-UST-03	5019388	12791		Double Walled FRP	10,000		Waste Heptane	9/1/1990	8/23/1996	REMOVED FROM GROU	CURRENTLY IN USE	3/27/1997	8/23/1996
NS-U132	NS-U132-UST-04	5019388	12791		Double Walled FRP	6,000		Waste Heptane	7/1/1990	6/12/1995	REMOVED FROM GROU	CURRENTLY IN USE	3/27/1997	6/12/1995
NS-U132	NS-U132-UST-05	5019388	12791		Double Walled FRP	6,000		Waste Heptane	7/1/1990	9/2/1996	REMOVED FROM GROU	CURRENTLY IN USE	3/27/1997	9/2/1996
NS-U132	NS-U132-UST-06	5019388	12791		Double Walled FRP	4,000		Heptane	6/1/1990	6/12/1995	REMOVED FROM GROU	CURRENTLY IN USE	3/27/1997	6/12/1995
NS-	NS-U20A-UST	5019388	12791		Unknownnown	500		Unknownnown	4/17/1946	4/17/1986	Closed in Ground	CLOSED IN GROUND		4/17/1986
NS-	NS-U20B-UST	5019388	12791		Unknownnown	500		Unknownnown	4/17/1946	4/17/1986	Closed in Ground	CLOSED IN GROUND		4/17/1986
NS-	NS-U28A-UST	5019388	12791		FRP	2,000		HAZARD	1/1/1980	1/1/1988	Closed in Ground	CLOSED IN GROUND		1/1/1988
NS-	NS-U28-UST	5019388	12791		shown by state as concrete	500		WATER/OIL/DETERGENT	4/17/1976	4/17/1986	Closed in Ground	CLOSED IN GROUND		4/17/1986
NS-	NS-U2-UST	5019360	15689		Unknownnown	0		Unknownnown		1/1/1988	Closed in Ground	CLOSED IN GROUND		1/1/1988
NS-	NS-U340-UST	5019360	15689		shown by state as concrete having lined interior	238,068		Kerosene	2/25/1943	1/1/1977	Closed in Ground	CLOSED IN GROUND		1/1/1977
NS-	NS-U341-UST	5019360	15689		shown by state as concrete having lined interior	238,642		Kerosene	2/25/1943	1/1/1977	Closed in Ground	CLOSED IN GROUND		1/1/1977
NS-	NS-U342-UST	5019360	15689		shown by state as concrete having lined interior	565,195		Kerosene	2/25/1943	1/1/1985	Closed in Ground	CLOSED IN GROUND		1/1/1985
NS-	NS-U78C-UST	5019388	12791		shown by state as concrete	550		Used Oil	4/17/1956	4/17/1986	Closed in Ground	CLOSED IN GROUND		4/17/1986
NS-V136	NS-V136-AST-01			Navfac Mid-Atlantic	Single Walled Steel	275	Product Dispenser	Diesel			REMOVED	NONE		
NS-	NS-V146C-UST	5019388	12791		Double Walled FRP	4,000		Used Oil	5/1/1993		REMOVED FROM GROU	CURRENTLY IN USE		
NS-V146	NS-V146-UST-02	0	0		Unknownnown	550	Used Oil Storage	Used Oil	1/1/1972	12/31/1981	Removed from Ground	Removed from ground		12/31/1981
NS-V27	NS-V27-UST-01	0	0		Single Walled Steel	530	Used Oil Storage	Used Oil	1/1/1942		Removed from Ground	Removed from ground		4/30/1991
NS-V28	NS-V28-UST-01	0	0		Single Walled Steel	1,500	Heating System Supply	Heating Oil	1/1/1968	4/30/1991	Removed from Ground	Removed from ground		4/30/1991
NS-V28	NS-V28-UST-06	5019388	12791		FRP	2,000		INDUSTRIAL WASTEWATE	9/1/1980	1/1/1988	Closed in Ground	CLOSED IN GROUND	6/20/1995	3/28/1995
NS-V47	NS-V47-AST-01	0	0	Naval Construction Battalion Unit 411	Double Walled Steel in Concrete	500	Product Dispenser	Diesel			Active	NONE		
NS-V47	NS-V47-AST-02A	0	0	Naval Construction Battalion Unit 411	Double Walled Steel in Concrete	250	Product Dispenser	Diesel	1/1/1997		Active	NONE		
NS-V47	NS-V47-AST-02B	0	0	Naval Construction Battalion Unit 411	Double Walled Steel in Concrete	250	Product Dispenser	Diesel	1/1/1997		Active	NONE		
NS-V47	NS-V47-AST-03A	0	0	Naval Construction Battalion Unit 411	Double Walled Steel in Concrete	250	Product Dispenser	Gasoline	1/1/1997		Active	NONE		
NS-V47	NS-V47-AST-03B	0	0	Naval Construction Battalion Unit 411	Double Walled Steel in Concrete	250	Product Dispenser	Gasoline	1/1/1997		Active	NONE		
NS-V47	NS-V47-AST-04	0	0	Naval Construction Battalion Unit 411	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil			Active	NONE		
NS-V47	NS-V47-UST-00				Unknownnown	500	Unknownnown	Unknownnown			Temporarily Out of Use	NONE		
NS-V49	NS-V49-UST-01	5023169	15689	Navfac Mid-Atlantic	FRP	1,000	Waste oil storage	Used Oil	1/1/1983	12/1/1992	REMOVED FROM GROU	REMOVED FROM GROUND	10/11/1994	12/1/1992
NS-V50	NS-V50-AST-01			Harbor Patrol	Double Walled Steel in Concrete	500	Product Dispenser	Gasoline	1/1/1998		Removed	NONE		8/31/2002
NS-V50	NS-V50-AST-02	0	0			1,000	Product Dispenser	Diesel	1/23/2002		Removed			8/31/2002
NS-V53	NS-V53-AST-01	0	0	SPAWARS	Double Bottomed Steel	1,500	Emergency Generator Base Tank	Diesel	12/1/2002		Active			
NS-V53	NS-V53-UST-01	5019360	15689	FTSC	Double Walled FRP	6,000	Emergency Generator Supply	Diesel	1/1/1990	5/1/1997	REMOVED FROM GROU	REMOVED FROM GROUND	5/21/1997	5/1/1997
NS-V58	NS-V58-AST-01			Fleet Training Center	Double Walled Steel in Concrete	500	Product Dispenser	Diesel	1/1/1995		Active	NONE		
NS-V64	NS-V64-AST-00			Fleet Imaging Center Atlantic	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	1/1/1995		Temporarily Out of Use	NONE		
NS-V64	NS-V64-AST-01	0	0	Fleet Imaging Center Atlantic	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	1/1/1995		Removed			
NS-V64	NS-V64-AST-02	0	0	Fleet Imaging Center Atlantic	Single Walled Steel	150	Emergency Generator Base Tank	Diesel			Active			
NS-V66	NS-V66-AST-01	0	0	Water Pump Station, Emergency Generator	Double Bottomed Steel	500	Emergency Generator Base Tank	Diesel			Active			
NS-W FUEL FARM	NS-W109-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	2,334,230	Bulk Storage	F-76	1/1/1931		Temporarily Out of Use	CURRENTLY IN USE		
NS-W FUEL FARM	NS-W110-AST-01	5023169	15100	TRAGEN (Contractor)	Single Walled Steel	2,351,454	Bulk Storage	F-76	1/1/1931		Temporarily Out of Use	CURRENTLY IN USE		
NS-W111	NS-W111-UST-01	5019377	15100		Unknownnown	15,000		Unknownnown	3/31/1942	1/1/1967	Closed in Ground	CLOSED IN GROUND		1/1/1967
NS-W130	NS-W130-UST-01				Unknownnown	550	Waste oil storage	Used Oil	1/1/1977		TEMPORARILY OUT OF	None		
NS-W143	NS-W143-AST-01	0	0	Fleet Industrial Supply Center	Double Walled Steel in Concrete	8,000	Emergency Generator Supply	Diesel	1/1/1998		Active	NONE		
NS-W143	NS-W143-AST-02			FISC	Single Walled Steel	75	Emergency Generator Day Tank	Diesel			Active	NONE		
NS-W143	NS-W143-AST-03	0	0	Fleet Industrial Supply Center	Single Walled Steel	75	Emergency Generator Day Tank	Diesel			Active			
NS-W143	NS-W143-AST-04	0	0	Fleet Industrial Supply Center	Double Bottomed Steel	150	Emergency Generator Day Tank	Diesel	1/1/2002		Active			
NS-W143	NS-W143-AST-05	0	0	Fleet Industrial Supply Center	Double Bottomed Steel	150	Emergency Generator Day Tank	Diesel	1/1/2002		Active			
NS-W143	NS-W143-AST-06	0	0	Fleet Industrial Supply Center	Double Bottomed Steel	150	Emergency Generator Day Tank	Diesel	1/1/2002		Active			
NS-W143	NS-W143-AST-07	0	0	Fleet Industrial Supply Center	Double Bottomed Steel	150	Emergency Generator Day Tank	Diesel	1/1/2002		Active			
NS-W143	NS-W143-AST-08	0	0	Fleet Industrial Supply Center	Double Bottomed Steel	16,000	Emergency Generator Supply	Diesel	1/1/2002		Active			
NS-W143	NS-W143-UST-00	5019377	15100		fiberglass shown by state as having lined interior	12,000	Heating System Supply	Diesel	4/9/1985	12/19/1998	Removed from Ground	CURRENTLY IN USE		11/5/1999
NS-W FUEL FARM	NS-W144-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	739,200	Bulk Storage	JP-5	1/1/1942		Temporarily Out of Use	CURRENTLY IN USE		
NS-W FUEL FARM	NS-W145-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	735,336	Bulk Storage	JP-5	1/1/1943		Temporarily Out of Use	CURRENTLY IN USE		
NS-W146	NS-W146-AST-01			Special Operations	Double Walled Steel in Concrete	250	Product Dispenser	Diesel	1/1/1995		Active	NONE		
NS-W146	NS-W146-AST-02	0	0	Naval Station Norfolk, Special Operations	Single Walled Steel	80	Emergency Generator Base Tank	Diesel			Active			

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
NS-W147	NS-W147-AST-01	0	0	Fleet Industrial Supply Center	Single Walled Steel	245	Bulk Storage	Diesel			Active			
NS-W147	NS-W147-AST-02			Fleet Industrial Supply Center	Single Walled Steel	75	Emergency Generator Day Tank	Diesel			Active			
NS-W FUEL FARM	NS-W174-AST-02	0	0	TRAGEN (Contractor)	Single Walled Steel	200	Emergency Generator Day Tank	Diesel			Active			
NS-W193A	NS-W193A-AST-01	0	0	Civilian Employees Cafeteria	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
NS-W196	NS-W196-UST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	Unknownnown	3,000	Used oil storage	Used Oil		4/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND	7/11/1994	6/3/1994
NS-W FUEL FARM	NS-W244-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	12,082	Bulk Storage	Lube Oil	1/1/1943		Active	CURRENTLY IN USE		
NS-W FUEL FARM	NS-W245-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	24,647	Bulk Storage	Lube Oil	1/1/1943		Active	CURRENTLY IN USE		
NS-W FUEL FARM	NS-W246-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	34,903	Bulk Storage	Lube Oil	1/1/1943		Active	CURRENTLY IN USE		
NS-W FUEL FARM	NS-W247-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	35,032	Bulk Storage	Lube Oil	1/1/1943		Active	CURRENTLY IN USE		
NS-W313	NS-W313-AST-01	0	0	Port Operations/Navfac Mid-Atlantic - Support Office	Single Walled Steel	275	Emergency Generator Day Tank	Diesel			Active			
NS-W FUEL FARM	NS-W356-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	5,040	Bulk Storage	Used Oil	1/1/1943		Active	CURRENTLY IN USE		
NS-W FUEL FARM	NS-W357-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	5,040	Bulk Storage	Lube Oil	1/1/1943		Active	CURRENTLY IN USE		
NS-W FUEL FARM	NS-W358-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	4,998	Bulk Storage	Lube Oil	1/1/1943		Active	CURRENTLY IN USE		
NS-W FUEL FARM	NS-W359-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	5,040	Bulk Storage	Used Oil	1/1/1943		Active	CURRENTLY IN USE		
NS-W FUEL FARM	NS-W360-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	92,442	Bulk Storage	Lube Oil	1/1/1919		Temporarily Out of Use	CURRENTLY IN USE		
NS-W FUEL FARM	NS-W361-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	99,120	Bulk Storage	Lube Oil	1/1/1919		Temporarily Out of Use	CURRENTLY IN USE		
NS-W FUEL FARM	NS-W362-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	5,040	Used Oil Storage	Used Oil	1/1/1943		Active	CURRENTLY IN USE		
NS-W FUEL FARM	NS-W363-AST-01	5023169	15689		Unknownnown	5,040		Used Oil	1/1/1943		REMOVED	PERMANENTLY OUT OF USE	6/5/1995	4/1/1984
NS-W383	NS-W383-UST-01				Unknownnown	750		DFM	1/1/1980		Unknown	none		
NS-W385	NS-W385-AST-01			Navfac Mid-Atlantic, Utilities	Single Walled Steel	75	Emergency Generator Supply	Diesel			Removed	NONE		
NS-W385	NS-W385-AST-02			Navfac Mid-Atlantic, Utilities	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	4/23/1996		Active	NONE		
NS-W385	NS-W385-UST-00	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	550	Emergency Generator Supply	Diesel	1/1/1979	6/16/1996	REMOVED FROM GROU	REMOVED FROM GROUND	4/3/1997	11/20/1996
NS-W388	NS-W388-AST-01			Norfolk Naval Shipyard - Fuels Lab	Double Walled Steel in Concrete	1,000	Used Oil Storage	Used Oil			Active	NONE		
NS-W FUEL FARM	NS-W61-AST-01			W Fuel Farm - Pump House	Double Walled Steel	270	Product Dispenser	Gasoline			Active			
NS-W FUEL FARM	NS-W61-AST-02			W Fuel Farm - Pump House	Double Walled Steel	270	Product Dispenser	Diesel			Active			
NS-	NS-W62-UST	5023169	15689	PWC Utilities	Unknownnown	15,000	Used oil storage	Used Oil	1/1/1940	1/1/1960	Closed in Ground	CLOSED IN GROUND		2/16/1994
NS-W62	NS-W62-UST-02	5023169	15689		Unknownnown	15,000		Gasoline		1/7/1993	REMOVED FROM GROU	CURRENTLY IN USE	8/23/1993	1/7/1993
NS-	NS-W63-UST	5023169	15689	PWC Utilities	Unknownnown	15,000	Used oil storage	Used Oil	1/1/1940	1/1/1960	Closed in Ground	CLOSED IN GROUND		2/16/1994
NS-	NS-W64-UST	5023169	15689	PWC Utilities	Single Walled Steel	1,000	Used oil storage	Used Oil	1/1/1980	1/1/1960	REMOVED FROM GROU	REMOVED FROM GROUND		2/16/1994
NS-W FUEL FARM	NS-W67-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	2,207,520	Bulk Storage	JP-5	1/1/1922		Temporarily Out of Use	CURRENTLY IN USE		
NS-W FUEL FARM	NS-W68-AST-01	5023169	15689	TRAGEN (Contractor)	Single Walled Steel	2,113,944	Bulk Storage	F-76	1/1/1922		Temporarily Out of Use	CURRENTLY IN USE		
NS-W6	NS-W6-AST-01	0	0	Second Fleet Headquarters	Single Walled Steel	2,000	Emergency Generator Base Tank	Diesel	1/1/2005		Active			
NS-W6	NS-W6-AST-02	0	0	Navfac Mid-Atlantic, Utilities	Single Walled Steel	275	Used Oil Storage	Used Oil			Removed	NONE		
NS-W6	NS-W6-UST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	FRP	1,000	Used oil storage	Used Oil	3/7/1984	1/1/1985	REMOVED FROM GROU	REMOVED FROM GROUND		2/16/1994
NS-W7	NS-W7-AST-01	0	0	Navfac Mid-Atlantic, Utilities	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil			Active	NONE		
NS-W7	NS-W7-AST-02	0	0		Single Walled Steel	275					Removed	NONE		
NS-W7	NS-W7-AST-03	0	0		PAINTED STEEL	275					Removed	NONE		
NS-WB176	NS-WB176-UST-01	5023169	15689	Navfac Mid-Atlantic, Utilities	Single Walled Steel	550	Emergency Generator Supply	Diesel	1/1/1983	4/1/1994	REMOVED FROM GROU	REMOVED FROM GROUND	5/6/1994	4/1/1994
NS-WB61	NS-WB61-UST-01			NSN 1st Lt.	Single Walled Steel	550	Heating System Supply	No. 2 Fuel Oil			Removed from Ground	NONE		9/19/2000
NS-WB63	NS-WB63-UST-01			NSN 1st Lt.	Single Walled Steel	550	Heating System Supply	No. 2 Fuel Oil			Closed in Ground	NONE		9/21/2000
NS-WB64	NS-WB64-UST-01			NSN 1st Lt.	Single Walled Steel	550	Heating System Supply	No. 2 Fuel Oil			Removed from Ground	NONE		9/20/2000
NS-WB66	NS-WB66-UST-01			NSN 1st Lt.	Single Walled Steel	550	Heating System Supply	No. 2 Fuel Oil			Removed from Ground	NONE		9/20/2000
NS-W FUEL FARM	NS-WFF-AST-01			ERC (Contractor)	Double Walled Steel	500	Remediation System Recovered Oil Storage	Recovered Oil	1/1/1996		Removed	NONE		
NS-W FUEL FARM	NS-WFF-AST-02			ERC (Contractor)	Double Walled Steel	500	Remediation System Recovered Oil Storage	Recovered Oil	1/1/1996		Active	NONE		
NS-W FUEL FARM	NS-WFF-AST-05			ERC (Contractor)	Double Walled Steel	200	Stores oil from remediation system	Recovered Oil	1/1/1995		Removed	NONE		
NS-W FUEL FARM	NS-WFF-AST-06			ERC (Contractor)	Double Walled Steel	200	Stores oil from remediation system	Recovered Oil	1/1/1995		TEMPORARILY OUT OF	NONE		
NS-W FUEL FARM	NS-WFF-UST-01	0	0	TRAGEN (Contractor)	Single Walled FRP	550	Emergency Spill Containment	Used Oil			Active	NONE		
NS-W FUEL FARM	NS-WFF-UST-02	0	0	TRAGEN (Contractor)	Single Walled FRP	550	Emergency Spill Containment	Used Oil			Active	NONE		
NS-X132	NS-X132-UST-01	5019377	15100		Single Walled Steel	1,000	Emergency Generator Supply	Diesel	4/9/1985	5/16/1997	Removed from Ground	Removed from ground	6/12/1997	5/16/1997
NS-X136	NS-X136-AST-01				Unknownnown	75		Diesel			Unknown	NONE		
NS-X136	NS-X136-AST-02				Unknownnown	275		Diesel			Unknown	NONE		
NS-X136	NS-X136-AST-03			Defense Depot	Single Walled Steel	300	Emergency Fire Pump	Diesel			Active			
NS-X137	NS-X137-AST-01	0	0	Navfac Mid-Atlantic, Maintenance	Closed Top Diked Steel	335	Emergency Generator Base Tank	Diesel			Active			
NS-X16	NS-X16-AST-01	0	0	SMSD	Single Walled Steel	75	Emergency Generator Base Tank	Diesel			Active			
NS-X275	NS-X275-AST-02	0	0	Navfac Mid-Atlantic, Supply	Single Walled Steel	350	Product Dispenser	Kerosene			Removed	NONE		
NS-X275	NS-X275-UST-01			800	Single Walled Steel	5,000	Heating System Supply	No. 2 Fuel Oil			Removed from Ground	NONE		7/19/2000
NS-Y100	NS-Y100-UST-01	5019377	15100		Single Walled Steel	2,000		Unknownnown			Closed in Ground			
NS-Y203	NS-Y203-UST-01	5019377	15100		Unknownnown	10,000		Diesel	1/1/1946	12/1/1976	Closed in Ground	CLOSED IN GROUND		12/1/1976
NS-Y203	NS-Y203-UST-02	5019377	15100		Unknownnown	10,000		Unknownnown	1/1/1946	12/1/1976	Closed in Ground	CLOSED IN GROUND		12/1/1976
NS-Z101	NS-Z101-AST-01				Unknownnown	100		No. 2 Fuel Oil			Unknown	NONE		
NS-Z107	NS-Z107-AST-01	0	0		Single Walled Steel	50	Emergency Generator Day Tank	Diesel			Active			
NS-Z133	NS-Z133-AST-01				Double Bottomed Steel	650	Emergency Generator Base Tank	Diesel	4/1/2002		Active			
NS-Z133	NS-Z133-AST-02	0	0		Single Walled Steel	300	Emergency Generator Base Tank	Diesel			Removed			
NS-Z140	NS-Z140-AST-01	0	0	Navfac Mid-Atlantic, Utilities	Single Walled Steel	200	Emergency Generator Base Tank	Diesel			Active			
NS-Z309	NS-Z309-AST-01			Navfac Mid-Atlantic, Utilities	Single Walled Steel	110,000	Supplies fuel to boiler system	Diesel	1/1/1957		POS	PERMANENTLY OUT OF USE		
NS-Z309	NS-Z309-UST-01	5023169	15689		Unknownnown	8,000	EMERGENCY SPILL PROTECTION	Diesel			REMOVED FROM GROU	CURRENTLY IN USE		
NS-Z312	NS-Z312-AST-01	5023169	15689	Navfac Mid-Atlantic, Utilities - Steam Commodity	Single Walled Steel	300,000	Heating System Supply	No. 2 Fuel Oil	7/14/1995		Active	CURRENTLY IN USE		
NS-Z312	NS-Z312-AST-03	0	0	Navfac Mid-Atlantic, Utilities	Single Walled Steel	200	Emergency Generator Base Tank	Diesel			Active			
NS-Z312	NS-Z312-UST-02	0	0	Navfac Mid-Atlantic, Utilities	Single Walled FRP	8,000	Emergency Spill Containment	Used Oil			Active	NONE		
NS-Z86	NS-Z86-UST-01	5023169	15689		Unknownnown	2,500		Diesel	1/5/1944	12/13/1985	REMOVED FROM GROU	CURRENTLY IN USE		12/6/1991
NS-Z86	NS-Z86-UST-02	5023169	15689		Unknownnown	2,500		Diesel	1/5/1944	12/31/1985	REMOVED FROM GROU	CURRENTLY IN USE		12/6/1991
NW-002	NW-002-UST-01	5019393		Boiler Plant	Double Walled FRP	15,000	Heating System Supply	No. 2 Fuel Oil	1/1/1994		Active			
NW-002	NW-002-UST-02	5019393		Boiler Plant	Double Walled FRP	10,000	Heating System Supply	No. 2 Fuel Oil	1/1/1994		Active			
NW-002	NW-002-UST-03	5019393		Boiler Plant	Double Walled FRP	15,000	Heating System Supply	No. 2 Fuel Oil	1/1/1994		Active			
NW-003	NW-003-AST-01	5019393		Citgo Remediation	Double Bottomed Steel	1,000	Remediation System Recovered Oil Storage	Recovered Oil	1/1/1998		Active			
NW-003	NW-003-UST-01	5019393		Navy Exchange - Gas Station	Double Walled FRP	6,000	Product Dispenser	Gasoline	1/1/1994		Active			
NW-003	NW-003-UST-02	5019393		Navy Exchange - Gas Station	Double Walled FRP	12,000	Product Dispenser	Gasoline	1/1/1994		Active			
NW-003	NW-003-UST-03	5019393		Navy Exchange - Gas Station	Double Walled FRP	10,000	Product Dispenser	Gasoline	1/1/1994		Active			
NW-014	NW-014-AST-01	5019393		Naval Computer and Telecommunications Area Master Statio	Single Walled Steel	500	Emergency Generator Supply	Diesel	1/1/1992		Active			
NW-014	NW-014-AST-02	5019393		Naval Computer and Telecommunications Area Master Statio	Double Walled Steel in Concrete	8,000	Emergency Generator Supply	Diesel	1/1/1999		Active			
NW-014	NW-014-UST-01	5019393		Naval Computer and Telecommunications Area Master Statio	Double Walled FRP	4,000	Heating System Supply	No. 2 Fuel Oil	1/1/1994		Active			

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
NW-015	NW-015-UST-01	5019393		Naval Computer and Telecommunications Area Master Statior	Double Walled FRP	4,000	Heating System Supply	No. 2 Fuel Oil	1/1/1994					
NW-041	NW-041-AST-01A	5019393		Communications	Double Walled Steel in Concrete	500	Product Dispenser	Diesel	1/1/1996		Active			
NW-041	NW-041-AST-01B	5019393		Communications	Double Walled Steel in Concrete	1,000	Product Dispenser	Diesel	1/1/1996		Active			
NW-041	NW-041-UST-01	5019393		Communications	Double Walled FRP	12,000	Emergency Generator Supply	No. 2 Fuel Oil	1/1/1993		Removed from ground			
NW-041	NW-041-UST-02	5019393		Communications	Double Walled FRP	4,000	Heating System Supply	No. 2 Fuel Oil	1/1/1993		Active			
NW-355	NW-144-AST-01	5019393		Bachelor Officer's Quarters	Single Walled Steel	500	Heating System Supply	Diesel	1/1/1991		Removed			
NW-238	NW-238-AST-01	5019393		Hobby Shop	Double Walled Steel	250	Used Oil Storage	Used Oil	1/1/1994		Active			
NW-238	NW-238-AST-02	5019393		Hobby Shop	Double Walled Steel	250	Used Oil Storage	Used Oil	1/1/1994		Active			
NW-238	NW-238-UST-01	5019393		Hobby Shop	Double Walled FRP	1,000	Heating System Supply	No. 2 Fuel Oil	1/1/1994		Active			
NW-240	NW-240-AST-01	5019393		Water Treatment Plant	Double Bottomed Steel	3,000	Emergency Generator Base Tank	No. 2 Fuel Oil	1/1/1995		Active			
NW-241	NW-241-UST-01	5019393		Bowling Alley	Double Walled FRP	1,000	Heating System Supply	No. 2 Fuel Oil	1/1/1994		Active			
NW-257	NW-257-UST-01	5019393		North Atlantic Treaty Organization	Double Walled FRP	10,000	Emergency Generator Supply	No. 2 Fuel Oil	1/1/1994		Active			
NW-257	NW-257-UST-02	5019393		North Atlantic Treaty Organization	Double Walled FRP	10,000	Emergency Generator Supply	No. 2 Fuel Oil	1/1/1994		Active			
NW-257	NW-257-UST-03	5019393		North Atlantic Treaty Organization	Double Walled FRP	1,000	Heating System Supply	No. 2 Fuel Oil	1/1/1994		Active			
NW-268	NW-268-AST-01	5019393		Communications	Single Walled Steel	275	Heating System Supply	Diesel	1/1/1981		Active			
NW-302	NW-302-AST-01	5019393		Hazardous Waste Accumulation Facility	Single Walled Steel	550	Used Oil Storage	Used Oil	1/1/1988		Inactive			
NW-340	NW-340-AST-01	5019393		Fire Department	Single Walled Steel	275	Product Dispenser		1/1/1989		Inactive			
NW-342	NW-342-AST-01	5019393		Bachelor Officer's Quarters	Single Walled Steel	500	Heating System Supply	Diesel	1/1/1991		Active			
NW-344	NW-344-AST-01	5019393		Fleet Surveillance Support Command	Double Walled Steel in Concrete	4,000	Emergency Generator Supply	No. 2 Fuel Oil	1/1/1997		Active			
NW-348	NW-348-AST-01	5019393		Gymnasium	Single Walled Steel	2,500	Heating System Supply	Diesel	1/1/1990		Active			
NW-351	NW-351-AST-01	5019393		Bachelor Enlisted Quarters	Single Walled Steel	2,500	Heating System Supply	Diesel	1/1/1996		Active			
NW-352	NW-352-AST-01	5019393		NCTAMS Facility	Double Walled FRP	8,000	Emergency Generator Supply	No. 2 Fuel Oil	1/1/1993		Removed			2/23/2001
NW-352	NW-352-AST-02	5019393		NCTAMSLANT	Double Walled Steel in Concrete	8,000	Emergency Generator Supply	Diesel	5/1/2002		Active			
NW-352	NW-352-AST-03	0	0			140	Emergency Generator Base Tank	Diesel			Active			
NW-352	NW-352-AST-04	0	0		Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	6/22/2005		Active			
NW-352	NW-352-UST-01	5019393		Naval Computer and Telecommunications Area Master Statior	Double Walled FRP	4,000	Heating System Supply	No. 2 Fuel Oil	1/1/1994		Active			
NW-360	NW-360-AST-01	5019393		Marine Academic Center	Single Walled Steel	2,200	Heating System Supply	No. 2 Fuel Oil	1/1/1996		Active			
NW-366	NW-366-UST-01	5019393		Marine Barracks	Double Walled FRP	4,000	Heating System Supply	No. 2 Fuel Oil	1/1/1994		Active			
NW-383	NW-383-AST-01	5019393		Child Development Center	Double Bottomed Steel	1,000	Heating System Supply	No. 2 Fuel Oil	1/1/1995		Active			
NW-390	NW-390-AST-01	5019393		Medical/Dental Center	Double Walled Steel	1,000	Emergency Generator Supply	No. 2 Fuel Oil	1/1/2000		Active			
NW-390	NW-390-UST-01	5019393		Medical/Dental Center	Double Walled Steel	2,500	Heating System Supply	No. 2 Fuel Oil	1/1/1997		Active			
NW-394	NW-394-AST-01	5019393		Environmental Fabric Tension Building	Double Walled Steel in Concrete	250	Product Dispenser	Diesel	1/1/1999		Removed			
NW-398	NW-398-AST-01	5019393		IAMS Rifle Range	Double Bottomed Steel	1,000	Heating System Supply	No. 2 Fuel Oil	1/1/1996		Active			
NW-399	NW-399-AST-01	5019393		Environmental Fabric Tension Building	Double Walled Steel in Concrete	250	Product Dispenser	Diesel	1/1/1999		Removed			
NW-399	NW-399-AST-02	5019393		IAMS Marine Rifle Range	Single Walled Steel	250	Product Dispenser	Diesel	5/1/2002		Active			
NW-CG-1	NW-CG1-AST-01	5019393		Coast Guard	Double Walled Steel in Concrete	3,000	Emergency Generator Supply/Equipment Fueling	No. 2 Fuel Oil	1/1/1999		Active			
NW-CG-3	NW-CG3-AST-01	5019393		Coast Guard Barracks	Double Walled Steel in Concrete	500	Heating System Supply	No. 2 Fuel Oil	1/1/1997		Active			
NW-CG-4	NW-CG4-AST-01	5019393		Coast Guard Communication Garage	Double Walled Steel in Concrete	500	Heating System Supply	No. 2 Fuel Oil	1/1/1997		Active			
OC-1000	OC-1000A-UST	5019359	16174		FRP	20,000		Kerosene	1/1/1987	10/1/1990	Closed in Ground	CLOSED IN GROUND		10/1/1990
OC-100	OC-100-AST-03	0	0	Air Operations Department - Air Terminal	Closed Top Diked Steel	480	Emergency Generator Base Tank	Diesel			Active			
OC-100	OC-100-AST-04	5019359	16174	Air Operations Department - Air Terminal	Double Walled Steel	500	Emergency Generator Supply	Diesel	3/1/2005		Active			
OC-100	OC-100-AST-05	5019381	15100	Fleet and Industrial Supply Center	Single Walled Steel	550	Heating System Supply	No. 2 Fuel Oil			Removed	NONE		
OC-	OC-100A-UST	5019359	16174		Unknownnown	1,000		Diesel	1/1/1961		Removed from Ground			
OC-100	OC-100-UST-01	5019359	16174	Air Operations Department - Air Terminal	Double Walled FRP	1,000	Emergency Generator Supply	Diesel	1/1/1996		Active			
OC-1020	OC-1020-AST-01	5019359	16174	Navfac Mid-Atlantic, Utilities - Water Pump Station	Double Walled Steel in Concrete	500	Fire Pump Supply	Diesel	1/1/1995		Active	NONE		
OC-	OC-103A-UST	5019359	16174		Unknownnown	5,000		JP-5	1/1/1981	8/1/1992	REMOVED FROM GROU	REMOVED FROM GROUND	7/15/1996	4/29/1996
OC-109	OC-109-AST-01	5019359	16174		Double Walled Steel	250	Heating System Supply	No. 2 Fuel Oil	1/1/1995		Removed	NONE		
OC-1100	OC-1100-AST-05	5019359	16174	Aircraft Intermediate Maintenance Department -Test Cell	Single Walled Steel	800	Preservation Oil Storage	Lube Oil	1/1/2000		Active			
OC-	OC-1100B-UST	5019359	16174		FRP	20,000		Kerosene	1/1/1987	10/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND	8/19/1993	7/14/1993
OC-1100	OC-1100-UST-01	5019359	16174	Aircraft Intermediate Maintenance Department -Test Cell	Single Walled FRP	20,000	Aircraft Engine Test Supply	JP-5	1/1/1986		Active	CURRENTLY IN USE		
OC-1100	OC-1100-UST-03	5019359	16174	Aircraft Intermediate Maintenance Department -Test Cell	Double Walled FRP	20,000	Engine Test Supply	JP-5	1/1/1993		Active	CURRENTLY IN USE		
OC-1102	OC-1102-AST-04	5019359	16174	Aircraft Intermediate Maintenance Department -Test Cell	Single Walled Steel	800	Preservation Oil Storage	Lube Oil			Active			
OC-1102	OC-1102-UST-01	5019359	16174	Aircraft Intermediate Maintenance Department -Test Cell	Double Walled FRP	1,000	Oil/Water Separator	Used Oil	1/1/1995		Active			
OC-1104	OC-1104-AST-02	5019359	16174	Aircraft Intermediate Maintenance Department -Test Cell	Single Walled Steel	100	Preservation Oil Storage	Lube Oil			Active			
OC-1105	OC-1105-AST-03	5019359	16174	Aircraft Intermediate Maintenance Department -Test Cell	Double Walled Steel in Concrete	1,000	Heating System Supply	No. 2 Fuel Oil	1/1/1996		Active			
OC-1106	OC-1106-AST-01	5019359	16174	Aircraft Intermediate Maintenance Department -Test Cell	Single Walled Steel	2,500	Engine Test Supply	JP-5	1/1/1989		Active			
OC-1106	OC-1106-AST-02	5019359	16174	Aircraft Intermediate Maintenance Department -Test Cell	Single Walled Steel	250	Preservation Oil Storage	Lube Oil			Active			
OC-1106	OC-1106-AST-05	5019359	16174	Aircraft Intermediate Maintenance Department -Test Cell	Double Walled Steel	6,000	Engine Test Supply	JP-5	4/1/1995		Active			
OC-110	OC-110-AST-01	5019359	16174	Aircraft Intermediate Maintenance Department	Double Walled Steel	500	Product Dispenser	Gasoline			Active	NONE		
OC-111	OC-111A-UST	5019359	16174		Double Walled FRP	550	Oil/Water Separator	Used Oil	1/1/1996	8/29/1996	REMOVED FROM GROU	REMOVED FROM GROUND		10/18/1996
OC-111	OC-111B-UST	5019359	16174		Double Walled FRP	550	Oil/Water Separator	Used Oil	1/1/1996	1/1/1996	REMOVED FROM GROU	REMOVED FROM GROUND		8/29/1996
OC-111	OC-111-UST-03	5019359	16174	Aircraft Intermediate Maintenance Department	Double Walled FRP	550	Oil/Water Separator	Used Oil	9/3/1996		Active	CURRENTLY IN USE		
OC-111	OC-111-UST-04	5019359	16174	Aircraft Intermediate Maintenance Department	Double Walled FRP	550	Oil/Water Separator	Used Oil	9/3/1996		Active	CURRENTLY IN USE		
OC-	OC-1201A-UST	5019359	16174		Unknownnown	1,000		Diesel	1/1/1962	9/12/1995	REMOVED FROM GROU	REMOVED FROM GROUND	10/19/1995	9/13/1995
OC-125	OC-125-AST-01	5019359	16174		Double Walled Steel	250	Heating System Supply	No. 2 Fuel Oil	1/1/1995		Active	NONE		
OC-131	OC-131-AST-01	5019359	16174		Double Walled Steel	250	Heating System Supply	No. 2 Fuel Oil	1/1/1995		Active	NONE		
OC-1420	OC-1420-AST-01	5019359	16174		Double Walled Steel	250	Heating System Supply	No. 2 Fuel Oil	1/1/1995	9/30/2003	Removed	NONE		9/30/2003
OC-	OC-1-UST	5019359	16174		Unknownnown	20,000		Kerosene	3/17/1985		Removed from Ground			
OC-2022	OC-2022-AST-02	5019359	16174		Double Walled Steel in Concrete	1,000	Heating System Supply	No. 2 Fuel Oil	7/1/1996		Active			
OC-220	OC-220-AST-02	5019359	16174	Navy Regional Fire/Rescue - Fire Station	Double Bottomed Steel	1,000	Product Dispenser	Diesel	1/1/1994		Active			
OC-220	OC-220-AST-03	5019359	16174	Navy Regional Fire/Rescue - Fire Station	Double Walled Steel	500	Emergency Generator Supply	Diesel	1/1/1995		Active	NONE		
OC-220	OC-220-AST-04	5019359	16174	Navy Regional Fire/Rescue - Fire Station	Single Walled Steel	70	Emergency Generator Day Tank	Diesel			Active			
OC-230	OC-230-AST-02	5019359	16174		Double Walled Steel	250	Emergency Generator Supply	Diesel	1/1/1996		Active	NONE		
OC-230	OC-230-AST-03	5019359	16174		Single Walled Steel	75	Emergency Generator Day Tank	Diesel			Active			
OC-232	OC-232-AST-01	5019359	16174		Double Walled Steel	1,000	Emergency Generator Supply	Diesel	9/1/1995	9/30/2003	Removed			9/30/2003
OC-232	OC-232-AST-02	5019359	16174	Naval Computer and Telecommunications Area Master Statior	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	10/1/2003		Active			
OC-240	OC-240-AST-01	5019359	16174		Double Walled Steel in Concrete	250	Heating System Supply	No. 2 Fuel Oil	1/1/1997		Active	NONE		
OC-250	OC-250-AST-01	5019359	16174	security - Main Gate	Closed Top Diked Steel	410	Emergency Generator Base Tank	Diesel	1/1/2005		Active			
OC-252	OC-252-AST-01	5019359	16174	security - Pass Office	Closed Top Diked Steel	410	Emergency Generator Base Tank	Diesel	1/1/2005		Active			
OC-280	OC-280-AST-02	5019359	16174		Double Walled Steel	500	Heating System Supply	No. 2 Fuel Oil	1/1/1995		Active	NONE		
OC-	OC-280A-UST	5019359	16174		Unknownnown	0		Unknownnown		8/1/1987	Closed in Ground	CLOSED IN GROUND		8/1/1987

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
OC-285	OC-285-AST-02	5019359	16174		Double Walled Steel	2,000	Emergency Generator Supply	Diesel	9/1/1995		Active			
OC-285	OC-285-AST-03	5019359	16174	Branch Clinic	Single Walled Steel	100	Emergency Generator Day Tank	Diesel			Active			
OC-	OC-285A-UST	5019359	16174		Unknownnown	2,000		Diesel	1/1/1979	9/20/1995	Closed in Ground	CLOSED IN GROUND	11/30/1995	10/16/1995
OC-290	OC-290-AST-02	5019359	16174	Navy Exchange	Double Walled Steel	250	Emergency Generator Supply	Diesel		1/1/2004	Removed	NONE	1/1/2004	1/1/2004
OC-290	OC-290-AST-03	0	0	Navy Exchange	Closed Top Diked Steel	150	Emergency Generator Base Tank	Diesel	1/1/2004		Active			
OC-292	OC-292-AST-01	0	0	Navy Exchange	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
OC-292	OC-292-AST-02	0	0	Navy Exchange	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
OC-295	OC-295-UST-01	5019359	16174	Navy Exchange - Gas Station	Single Walled Steel	12,000	Product Dispenser	Gasoline	1/1/1990		Active	CURRENTLY IN USE		
OC-295	OC-295-UST-02	5019359	16174	Navy Exchange - Gas Station	Single Walled Steel	12,000	Product Dispenser	Gasoline	1/1/1990		Active	CURRENTLY IN USE		
OC-295	OC-295-UST-03	5019359	16174	Navy Exchange - Gas Station	Single Walled Steel	12,000	Product Dispenser	Gasoline	1/1/1990		Active	CURRENTLY IN USE		
OC-295	OC-295-UST-04	5019359	16174	Navy Exchange - Gas Station	Single Walled Steel	2,000	Product Dispenser	Kerosene	1/1/1990		Active	CURRENTLY IN USE		
OC-	OC-2APT-UST	5019359	16174		Unknownnown	20,080	Heating System Supply	Fuel Oil	3/17/1954		Removed from Ground			
OC-	OC-2-UST	5019359	16174		Unknownnown	20,000		Kerosene	3/17/1985		Removed from Ground			
OC-3001	OC-3001-AST-04	5019359	16174	Air Operations - Digital Air Surveillance Radar	Double Walled Steel	500	Emergency Generator Supply	Diesel	1/1/1995		Active	NONE		
OC-3001	OC-3001-AST-05	5019359	16174	Air Operations - Digital Air Surveillance Radar	Single Walled Steel	65	Emergency Generator Day Tank	Diesel	1/1/1995		Active			
OC-	OC-3001A-UST	5019359	16174		Unknownnown	275		Diesel	1/1/1953	6/1/1973	REMOVED FROM GROU	REMOVED FROM GROUND	7/12/1993	4/12/1993
OC-3003	OC-3003-AST-03	5019359	16174		Double Walled Steel	500	Emergency Generator Supply	Diesel	1/1/1995		Active	NONE		
OC-	OC-3003A-UST	5019359	16174		Unknownnown	275		Diesel	1/1/1967	8/1/1987	REMOVED FROM GROU	REMOVED FROM GROUND	7/21/1993	6/8/1993
OC-3015	OC-3015-AST-03	5019359	16174	Digital Air Surveillance Radar	Double Walled Steel	1,000	Emergency Generator Supply	Diesel	2/1/1995		Temporarily Out of Use			
OC-3015	OC-3015-AST-04	5019359	16174	Air Operations - Digital Air Surveillance Radar	Single Walled Steel	70	Emergency Generator Day Tank	Diesel	2/1/1995		Active			
OC-3015	OC-3015-AST-05	0	0	Air Operations - Digital Air Surveillance Radar	Double Walled Steel	1,000	Emergency Generator Supply	Diesel	6/1/2004		Active			
OC-	OC-3015A-UST	5019359	16174		Unknownnown	2,000		Diesel	1/1/1981		Removed from Ground			
OC-	OC-301A-UST	5019359	16174		FRP	1,000		Used Oil	1/1/1985	3/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND	7/16/1993	5/27/1993
OC-3025	OC-3025-AST-01	5019359	16174	Naval Special Warfare Development Group	Double Walled Steel	5,000	Product Dispenser	JP-5			Active			
OC-3025	OC-3025-AST-02	5019359	16174	Naval Special Warfare Development Group	Double Bottomed Steel	420	Emergency Generator Base Tank	Diesel			Active			
OC-3030	OC-3030-AST-05	5019359	16174	Fleet Area Control and Surveillance Facility, Virginia Capes	Double Walled Steel	2,000	Emergency Generator Supply	Diesel	4/1/1995		Active			
OC-3030	OC-3030-AST-06	5019359	16174	Fleet Area Control and Surveillance Facility, Virginia Capes	Double Walled Steel	500	Heating System Supply	No. 2 Fuel Oil	1/1/1995		Active	Temporarily out of use		
OC-3030	OC-3030-AST-07	5019359	16174	FACSFAC VACAPES	Double Walled Steel	500	Heating System Supply	No. 2 Fuel Oil	1/1/1995		Removed	Temporarily out of use		
OC-3030	OC-3030-AST-08	5019359	16174	Fleet Area Control and Surveillance Facility, Virginia Capes	Double Walled Steel	500	Heating System Supply	No. 2 Fuel Oil	1/1/1995		Active	Temporarily out of use		
OC-	OC-3030A-UST	5019359	16174		Unknownnown	3,000		Diesel	1/1/1977	9/20/1995	Closed in Ground	CLOSED IN GROUND	11/30/1995	10/17/1995
OC-	OC-3030B-UST	5019359	16174		Unknownnown	1,000		No. 2 Fuel Oil		9/20/1995	Closed in Ground	CLOSED IN GROUND	11/30/1995	10/17/1995
OC-	OC-3036-UST	5019359	16174		Double Walled FRP	2,500		Diesel	1/1/1989		Removed from Ground	CURRENTLY IN USE		
OC-3045	OC-3045-AST-01	5019359	16174	Federal Aviation Administration	Double Walled Steel	2,000	Emergency Generator Supply	Diesel	1/1/1991		Active			
OC-3045	OC-3045-AST-02	5019359	16174	Federal Aviation Administration	Single Walled Steel	150	Emergency Generator Day Tank	Diesel			Active			
OC-3050	OC-3050-AST-01	5019359	16174	Naval Special Warfare Development Group	Single Walled Steel	2,000	Heating System Supply	No. 2 Fuel Oil			Active	NONE		
OC-3053	OC-3053-AST-01	5019359	16174	Naval Special Warfare Development Group	Double Walled Steel in Concrete	1,000	Emergency Generator Supply	Diesel	1/1/1994		Active	NONE		
OC-306	OC-306-AST-02	5019359	16174	Aircraft Intermediate Maintenance Department	Single Walled Steel	100	Auxiliary Power Unit Compressor Supply	JP-5			Active			
OC-306	OC-306-AST-03	5019359	16174	Aircraft Intermediate Maintenance Department	Single Walled Steel	610	Preservation Oil Storage	Lube Oil			Active			
OC-306	OC-306-AST-04	5019359	16174	Aircraft Intermediate Maintenance Department	Single Walled Steel	500	Preservation Oil Storage	Lube Oil			Active			
OC-310	OC-310-AST-01	0	0	Tactical Aircrew Training System	Single Walled Steel	200	Emergency Generator Base Tank	Diesel			Active			
OC-	OC-323A-UST	5019359	16174		Unknownnown	1,000		Diesel	1/1/1968	8/26/1987	REMOVED FROM GROU	REMOVED FROM GROUND	7/16/1993	6/2/1993
OC-401	OC-401-UST-01	5019359	16174	Aircraft Intermediate Maintenance Department	Single Walled Steel	65	Oil/Water Separator	Used Oil	1/1/1972		Active			
OC-	OC-403A-UST	5019359	16174		Unknownnown	275		Used Oil	1/1/1970	8/26/1987	REMOVED FROM GROU	REMOVED FROM GROUND	7/16/1993	6/3/1993
OC-404	OC-404-AST-05	5019359	16174		Double Walled Steel	250	Heating System Supply	No. 2 Fuel Oil	1/1/1995		Removed	NONE		
OC-	OC-410A-UST	5019359	16174		Unknownnown	5,000		Gasoline	1/1/1954	6/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND	11/5/1993	9/17/1993
OC-	OC-410B-UST	5019359	16174		Unknownnown	5,000		Gasoline		7/3/1995	REMOVED FROM GROU	REMOVED FROM GROUND	11/30/1995	10/4/1995
OC-	OC-410C-UST	5019359	16174		Unknownnown	5,000		Gasoline		7/3/1995	REMOVED FROM GROU	REMOVED FROM GROUND	11/30/1995	10/4/1995
OC-480	OC-480-AST-01	0	0	Morale, Welfare, and Recreation - Officer's Club	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
OC-500	OC-500-AST-01	5019359	16174	F14 Squadron Hangar	Single Walled Steel	90	Emergency Generator Base Tank	Diesel			Active			
OC-	OC-513-A-UST	5019359	16174		Unknownnown	500		Diesel	1/1/1974	8/1/1992	REMOVED FROM GROU	REMOVED FROM GROUND	9/15/1993	8/9/1993
OC-520	OC-520-AST-01	5019359	16174	Galley	Double Bottomed Steel	175	Emergency Generator Base Tank	Diesel			Active			
OC-520	OC-520-AST-02	0	0	Galley	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
OC-	OC-528A-UST	5019359	16174		Unknownnown	0		Gasoline		6/1/1973	Closed in Ground	CLOSED IN GROUND		6/1/1973
OC-	OC-528B-UST	5019359	16174		Unknownnown	0		Gasoline		6/1/1973	Closed in Ground	CLOSED IN GROUND		6/1/1973
OC-541	OC-541-AST-08	5019359	16174	Navy Exchange - Gas Station	Double Walled Steel	500	Used Oil Storage	Used Oil	1/1/1994		Active	NONE		
OC-541	OC-541-AST-09	5019359	16174	Navy Exchange - Gas Station	Double Bottomed Steel	10,000	Product Dispenser	Diesel	1/1/1994		Active			
OC-541	OC-541A-UST	5019359	16174		Unknownnown	20,000		Gasoline	1/1/1973	3/20/1995	REMOVED FROM GROU	CURRENTLY IN USE		11/20/1998
OC-541	OC-541B-UST	5019359	16174		Unknownnown	20,000		Gasoline	1/1/1973	3/20/1995	REMOVED FROM GROU	CURRENTLY IN USE		11/20/1998
OC-541	OC-541C-UST	5019359	16174		Unknownnown	550		Used Oil	1/1/1973	10/16/1995	REMOVED FROM GROU	REMOVED FROM GROUND	11/17/1995	10/17/1995
OC-541	OC-541D-UST	5019359	16174		Unknownnown	10,000		Used Oil	1/1/1975	3/20/1995	REMOVED FROM GROU	CURRENTLY IN USE		11/20/1998
OC-541	OC-541-UST-05	5019359	16174	Navy Exchange - Gas Station	Double Walled FRP	10,000	Product Dispenser	Gasoline	1/1/1996		Temporarily Out of Use			
OC-541	OC-541-UST-06	5019359	16174	Navy Exchange - Gas Station	Double Walled FRP	20,000	Product Dispenser	Gasoline	1/1/1996		Active			
OC-541	OC-541-UST-07	5019359	16174	Navy Exchange - Gas Station	Double Walled FRP	20,000	Product Dispenser	Gasoline	1/1/1996		Active			
OC-543	OC-543-AST-02	5019359	16174	Morale, Welfare, and Recreation - Auto Hobby Shop	Double Walled Steel	500	Used Oil Storage	Used Oil	1/1/1995		Active	NONE		
OC-543	OC-543-AST-03	5019359	16174	Morale, Welfare, and Recreation - Auto Hobby Shop	Double Walled Steel	500	Used Oil Storage	Used Oil	1/1/1995		Active	NONE		
OC-	OC-543A-UST	5019359	16174		Unknownnown	2,000		Used Oil	1/1/1975	8/10/1993	REMOVED FROM GROU	REMOVED FROM GROUND	10/2/1995	8/10/1993
OC-581	OC-581-AST-02	0	0	Morale, Welfare, and Recreation - Golf Course	Double Walled Steel	500	Heating System Supply	Fuel Oil			Active			
OC-581	OC-581-AST-03	0	0	Morale, Welfare, and Recreation - Golf Course	Single Walled Steel	275	Used Oil Storage	Used Cooking Oil & Grease			Active			
OC-581	OC-581-UST-01	5019359	16174	Morale, Welfare, and Recreation - Golf Course	Double Walled FRP	2,000	Heating System Supply	No. 2 Fuel Oil	1/1/1985		Removed from Ground	N/A		
OC-585	OC-585-AST-01	5019359	16174	Morale, Welfare, and Recreation - Golf Cart Storage	Double Walled Steel in Concrete	500	Product Dispenser	Gasoline	10/1/2004		Active			
OC-	OC-601-1-UST	5019359	16174		Unknownnown	1,000		Diesel		2/22/1996	REMOVED FROM GROU	REMOVED FROM GROUND	8/29/1996	2/22/1996
OC-602	OC-602-AST-01	5019359	16174	Navfac Mid-Atlantic - Utilities	Single Walled Steel	324,000	Heating System Supply	No. 4 Fuel Oil	1/1/1952		Active			
OC-602	OC-602-UST-01	5019359	16174	Navfac Mid-Atlantic - Utilities	Single Walled Steel	5,000	Emergency spill containment	Emergency Overflow Spillage	1/1/1980		Active	N/A		
OC-	OC-603-1-UST	5019359	16174		Unknownnown	1,000		Gasoline		8/21/1995	REMOVED FROM GROU	REMOVED FROM GROUND	10/2/1995	8/21/1995
OC-603	OC-603-AST-05	5019359	16174	Oceana Aircraft Fuels Division	Double Bottomed Steel	1,000	Product Dispenser	Diesel	1/1/1994		Active			
OC-603	OC-603-AST-06	5019359	16174	Oceana Aircraft Fuels Division	Double Walled Steel	250	Heating System Supply	No. 2 Fuel Oil	1/1/1994		Active	NONE		
OC-603	OC-603-AST-07	5019359	16174	Oceana Aircraft Fuels Division	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	1/1/1996		Active	NONE		
OC-603	OC-603-AST-08	5019359	16174	Oceana Aircraft Fuels Division	Double Walled Steel in Concrete	500	Used Oil Storage	Used JP-5	1/1/1999		Active	NONE		
OC-601	OC-604-AST-02	5019359	16174	Navfac Mid-Atlantic - Utilities	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	10/1/1995		Active	NONE		
OC-601	OC-604-AST-03	5019359	16174	Navfac Mid-Atlantic - Utilities	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	10/1/1995		Active	NONE		
OC-70	OC-70-AST-05	5019359	16174	Morale, Welfare, and Recreation - Stables	Double Walled Steel	250	Product Dispenser	Diesel	1/1/1995		Active	NONE		

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
OC-70	OC-70-AST-06	5019359	16174	Morale, Welfare, and Recreation - Stables	Double Walled Steel	250	Heating System Supply	No. 2 Fuel Oil	1/1/1996		Active	NONE		
OC-	OC-70A-UST	5019359	16174		Unknownnown	1,500		Gasoline	1/1/1953	12/1/1964	REMOVED FROM GROU	REMOVED FROM GROUND	7/12/1993	4/22/1993
OC-797	OC-797-AST-01			Morale, Welfare, and Recreation - Golf Course Maintenance	Double Walled Steel	250	Product Dispenser	Diesel	1/1/2004		Active	NONE		
OC-797	OC-797-AST-02			Morale, Welfare, and Recreation - Golf Course Maintenance	Double Walled Steel	500	Product Dispenser	Gasoline	1/1/2004		Active	NONE		
OC-798	OC-798-AST-04	5019359	16174	Morale, Welfare, and Recreation - Golf Course Maintenance	Double Walled Steel	500	Heating System Supply	No. 2 Fuel Oil	1/1/1994		Active	NONE		
OC-798	OC-798-AST-05	5019359	16174	Morale, Welfare, and Recreation - Golf Course Maintenance	Double Walled Steel	250	Product Dispenser	Diesel	1/1/1995		Relocated	NONE		1/1/2004
OC-798	OC-798-AST-06	5019359	16174	Morale, Welfare, and Recreation - Golf Course Maintenance	Double Walled Steel	500	Product Dispenser	Gasoline	1/1/1995		Relocated	NONE		1/1/2004
OC-	OC-798D-UST	5019359	16174		Unknownnown	1,000		Gasoline		9/5/1995	REMOVED FROM GROU	REMOVED FROM GROUND	10/19/1995	9/5/1995
OC-830	OC-830-AST-04			Transportation	Double Walled Steel in Concrete	4,000	Product Dispenser	Bio-Diesel	6/1/2005		Active			
OC-830	OC-830-AST-05	5019359	16174	Navfac Mid-Atlantic - Transportation	Double Walled Steel in Concrete	1,000	Used Oil Storage	Used Oil	1/1/1994		Active			
OC-830	OC-830-AST-06	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
OC-830	OC-830-AST-07	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Diesel			Active			
OC-830	OC-830-AST-08	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
OC-830	OC-830-AST-09	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
OC-830	OC-830-AST-10	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
OC-830	OC-830-AST-11	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
OC-830	OC-830-AST-12	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
OC-830	OC-830-AST-13	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Diesel			Active			
OC-830	OC-830-AST-14	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
OC-830	OC-830-AST-15	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
OC-830	OC-830-AST-16	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
OC-830	OC-830-AST-17	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
OC-830	OC-830-AST-18	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
OC-830	OC-830-AST-19	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
OC-830	OC-830-AST-20	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
OC-830	OC-830-AST-21	0	0	Navfac Mid-Atlantic - Transportation	Single Walled Steel	65	Product Dispenser	Lube Oil			Active			
OC-830	OC-830A-UST	5019359	16174	Navfac Mid-Atlantic	Unknownnown	5,000	Equipment fueling	Diesel	1/1/1954	4/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND	7/12/1993	5/20/1993
OC-830	OC-830B-UST	5019359	16174	Navfac Mid-Atlantic	Unknownnown	5,000	Equipment fueling	Diesel	1/1/1954	4/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND	7/12/1993	5/20/1993
OC-830	OC-830-UST-03	5019359	16174	Navfac Mid-Atlantic - Transportation	Double Walled FRP	10,000	Product Dispenser	Diesel	1/1/1994		Active	CURRENTLY IN USE		
OC-833	OC-833-UST-01	5019359	16174	Navfac Mid-Atlantic Transportation	Double Walled FRP	550	Oil/Water Separator	Used Oil	6/1/1994		Active	CURRENTLY IN USE		
OC-833	OC-833-UST-02	5019359	16174	Navfac Mid-Atlantic Transportation	Double Walled FRP	1,000	Stores purged JP-5	Used Oil	6/1/1994		Active	CURRENTLY IN USE		
OC-900	OC-900-AST-02	5019359	16174		Double Walled Steel in Concrete	500	Heating System Supply	No. 2 Fuel Oil	1/1/1996		Active	NONE		
OC-920	OC-920-AST-01	0	0	Navy Marine Corps Internet	Double Bottomed Steel	1,250	Emergency Generator Base Tank	Diesel			Active			
OC-	OC-96A-UST	5019359	16174		Unknownnown	500		Diesel		8/1/1984	REMOVED FROM GROU	REMOVED FROM GROUND	7/12/1994	8/1/1984
OC-A2	OC-A2-AST	5019359	16174	Code 225.1	Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil			Removed	NONE		
OC-ACLS	OC-ACLS-AST-01	5019359	16174	Air Operations - ACLS (Automatic Carrier Landing Systems)	Double Walled Steel	250	Emergency Generator Supply	Diesel	1/1/1995		Active	NONE		
OC-ACLS	OC-ACLS-AST-02	5019359	16174	Air Operations - ACLS (Automatic Carrier Landing Systems)	Single Walled Steel	65	Emergency Generator Day Tank	Diesel			Active			
OC-	OC-CEU1-UST	5019359	16174		Unknownnown	10,000		Kerosene	1/1/1971	5/1/1986	REMOVED FROM GROU	REMOVED FROM GROUND		5/1/1986
OC-	OC-CEU2-UST	5019359	16174		Unknownnown	10,000		Kerosene	1/1/1971	5/1/1986	REMOVED FROM GROU	REMOVED FROM GROUND		5/1/1986
OC-	OC-CEU3-UST	5019359	16174		Unknownnown	10,000		Kerosene	1/1/1971	5/1/1986	REMOVED FROM GROU	REMOVED FROM GROUND		5/1/1986
OC-	OC-CEU4-UST	5019359	16174		Unknownnown	10,000		Kerosene	1/1/1971	5/1/1986	REMOVED FROM GROU	REMOVED FROM GROUND		5/1/1986
OC-DayTankArea	OC-E105-AST-01	5019359	16174	NAVFAC MIDLANT Utilities	Double Walled Steel	1,000	Emergency Generator Supply	Diesel	9/1/1995		Active			
OC-DayTankArea	OC-E105-AST-02	5019359	16174	NAVFAC MIDLANT Utilities	Single Walled Steel	250	Emergency Generator Base Tank	Diesel	1/1/2005		Active			
OC-E108	OC-E108-AST-03	5019359	16174		Double Walled Steel	1,000	Emergency Generator Supply	Diesel	9/1/1995		Active			
OC-E108	OC-E108-AST-04	5019359	16174		Single Walled Steel	65	Emergency Generator Day Tank	Diesel			Active			
OC-E108	OC-E108A-UST-00	5019359	16174		Unknownnown	550		Diesel	1/1/1969	9/8/1995	REMOVED FROM GROU	REMOVED FROM GROUND	10/19/1995	9/11/1995
OC-E1201	OC-E1201-AST-02	5019359	16174		Double Walled Steel	1,000	Emergency Generator Supply	Diesel	9/1/1995		Active			
OC-E1201	OC-E1201-AST-03	5019359	16174		Single Walled Steel	50	Emergency Generator Day Tank	Diesel			Active			
OC-E3036	OC-E3036-AST-01	0	0	Air Operations - Lighting Vault	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel			Active			
OC-E3036	OC-E3036-AST-02	0	0	Air Operations - Lighting Vault	Closed Top Diked Steel	75	Emergency Generator Base Tank	Diesel			Active			
OC-E499	OC-E499-AST-01	5019359	16174	Navfac Mid-Atlantic - Utilities	Double Walled Steel	5,000	Emergency Generator Supply	Diesel	1/1/1994		Active			
OC-E499	OC-E499-AST-02	5019359	16174	Navfac Mid-Atlantic - Utilities	Single Walled Steel	150	Emergency Generator Day Tank	Diesel	1/1/1994		Active			
OC-E499	OC-E499-AST-03	5019359	16174	Navfac Mid-Atlantic - Utilities	Single Walled Steel	150	Emergency Generator Day Tank	Diesel	1/1/1994		Active			
OC-	OC-F1024-UST-01	5019359	16174		Unknownnown	550		Diesel	1/1/1981		REMOVED FROM GROU	REMOVED FROM GROUND		
OC-FuelFarm	OC-F10-AST-01	5019359	16174	Oceana Aircraft Fuels Division	Single Walled Steel	1,100,266	Bulk Storage	JP-5	1/1/2003		Active			
OC-FuelFarm	OC-F11-AST-01	5019359	16174		Single Walled Steel	420,000	Bulk Storage	JP-5	1/1/1963		Removed	Removed from ground		6/1/2002
OC-FuelFarm	OC-F11-AST-02	5019359	16174		Double Walled Steel in Concrete	1,000	Water Stripping Tank	Water stripping from AST F11	7/1/1995		Removed			
OC-	OC-F12-UST-01	5019359	16174		shown by state as having lined interior	570,000		JP-5	3/17/1954		Closed in Ground	CURRENTLY IN USE		
OC-	OC-F13-UST-01	5019359	16174		shown by state as having lined interior	570,000		JP-5	3/17/1954		Closed in Ground	CURRENTLY IN USE		
OC-	OC-F14-UST-01	5019359	16174		shown by state as having lined interior	570,000		JP-5	3/17/1954		Closed in Ground	CURRENTLY IN USE		
OC-FuelFarm	OC-F15-AST-01	0	0		Double Bottomed Steel	250	Remediation System Recovered Oil Storage	Recovered Oil			Active			
OC-	OC-F15-UST-01	5019359	16174		shown by state as having lined interior	570,000		JP-5	3/17/1954		Closed in Ground	CURRENTLY IN USE		
OC-FuelFarm	OC-F16-AST-02	5019359	16174	recovery contractor?	Single Walled Steel	3,000	Pump and Treat System	Recovered JP-5	6/1/1989		Active			
OC-	OC-F16-UST-01	5019359	16174		shown by state as having lined interior	570,000		JP-5	3/17/1954		Closed in Ground	CURRENTLY IN USE		
OC-FuelFarm	OC-F17-AST-01	5019359	16174	Fleet and Industrial Supply Center - Oceana's Fuels Division	Double Walled Steel in Concrete	1,000	Used Oil Storage	Used JP-5	5/1/2005		Active			
OC-FuelFarm	OC-F17-UST-01	5019359	16174	Fleet and Industrial Supply Center - Oceana's Fuels Division	Double Walled FRP	5,000	Emergency Spill Containment	Used Oil	1/1/1997		Active			
OC-FuelFarm	OC-F19A-UST-02	5019359	16174		Steel with poly lined interior shown by state as e	25,000	Bulk Storage	JP-5	3/17/1954		POS	CURRENTLY IN USE		
OC-FuelFarm	OC-F19-UST-01	5019359	16174		Steel with poly lined interior shown by state as e	25,000	Bulk Storage	JP-5	3/17/1954		POS	CURRENTLY IN USE		
OC-DayTankArea	OC-F20-UST-01	5019359	16174	Fleet and Industrial Supply Center - Oceana's Fuels Division	Single Walled Steel	210,000	Airfield Day Tank	JP-5	3/17/1954		Active	CURRENTLY IN USE		
OC-DayTankArea	OC-F21-AST-01	5019359	16174	Fleet and Industrial Supply Center - Oceana's Fuels Division	Double Walled Steel	1,000	Water Stripping Tank	Used JP-5	4/1/1995		Active			
OC-	OC-F232-UST-01	5019359	16174		FRP	3,000		Diesel	1/1/1969	9/20/1995	Closed in Ground	CLOSED IN GROUND	11/30/1995	10/12/1994
OC-DayTankArea	OC-F23-AST-02	5019359	16174		Single Walled Steel	3,000	Pump and Treat System	Recovered JP-5	6/1/1989		Removed			
OC-DayTankArea	OC-F23-AST-03	5019359	16174	Fleet and Industrial Supply Center - Oceana's Fuels Division	Double Walled Steel in Concrete	2,000	Fuel filter relief valves & air vent	Used JP-5	3/1/2001		Active			
OC-DayTankArea	OC-F23A-UST-02	5019359	16174		Unknownnown	550		Used Oil	1/1/1968	9/29/1995	REMOVED FROM GROU	REMOVED FROM GROUND	11/17/1995	10/2/1995
OC-DayTankArea	OC-F23-UST-01	5019359	16174	Fleet and Industrial Supply Center - Oceana's Fuels Division	Double Walled FRP	1,000	Emergency Spill Containment	Used Oil	1/1/1996		Active			
OC-DayTankArea	OC-F25-AST-01	5019359	16174	Fleet and Industrial Supply Center - Oceana's Fuels Division	Double Walled Steel in Concrete	2,000	Water Stripping Tank	Used JP-5	12/1/1998		Active			
OC-DayTankArea	OC-F25-UST-01	5019359	16174	Fleet and Industrial Supply Center - Oceana's Fuels Division	Single Walled Steel	210,000	Airfield Day Tank	JP-5	1/1/1998		Active			
OC-DayTankArea	OC-F27-AST-01	5019359	16174	Fleet and Industrial Supply Center - Oceana's Fuels Division	Double Walled Steel in Concrete	6,000	Bulk Storage	Used JP-5	6/1/2002		Active			
OC-DayTankArea	OC-F28-AST-01	5019359	16174	Fleet and Industrial Supply Center - Oceana's Fuels Division	Double Walled Steel in Concrete	6,000	Bulk Storage	Used JP-5	6/1/2002		Active			
OC-	OC-F4000-UST-01	5019359	16174		Unknownnown	20,000		Fuel Oil	1/1/1955	6/1/1993	REMOVED FROM GROU	REMOVED FROM GROUND	9/21/1993	8/17/1993
OC-	OC-F410AR-UST-02	5019359	16174		Unknownnown	5,182		Gasoline	3/17/1954	4/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND		4/1/1990

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
OC-	OC-F410A-UST-01	5019359	16174		Unknownnown	5,000		Gasoline	1/1/1955	6/1/1990	Closed in Ground	CLOSED IN GROUND		6/1/1990
OC-	OC-F48-UST-01	5019359	16174		shown by state as concrete having lined interior	50,000		JP-5	3/17/1946	8/1/1992	REMOVED FROM GROU	REMOVED FROM GROUND	7/15/1996	5/2/1996
OC-5th St Fuel Farm	OC-F53-UST-01	5019359	16174		Unknownnown	5,000		Used Oil	3/17/1954	7/13/1995	REMOVED FROM GROU	REMOVED FROM GROUND		7/13/1995
OC-5th St Fuel Farm	OC-F53-UST-02	5019359	16174		Unknownnown	5,000		Used Oil	1/1/1981		Removed from Ground			
OC-5th St Fuel Farm	OC-F53-UST-03	5019359	16174		Double Walled FRP	5,000	Emergency Spill Containment	Emergency Overflow Spillage	1/1/1996		Active	N/A		
OC-5th St Fuel Farm	OC-F54-AST-04	5019359	16174		Double Walled Steel in Concrete	6,000	Bulk Storage	JP-5	9/1/1996		Removed			6/1/2002
OC-5th St Fuel Farm	OC-F54-AST-05	5019359	16174		Double Walled Steel in Concrete	6,000	Bulk Storage	JP-5	9/1/1996		Removed			6/1/2002
OC-5th St Fuel Farm	OC-F54-AST-06	5019359	16174		Double Walled Steel in Concrete	6,000	Bulk Storage	Used JP-5	10/1/1996		Active			
OC-5th St Fuel Farm	OC-F54-AST-07	5019359	16174		Double Walled Steel in Concrete	2,000	Product Dispenser	JP-5	9/1/1998		Active			
OC-5th St Fuel Farm	OC-F54-AST-08	5019359	16174		Double Walled Steel in Concrete	2,000	Pump and Treat System	Recovered JP-5	10/1/1997		Active			
OC-5th St Fuel Farm	OC-F54-UST-01	5019359	16174		Unknownnown	5,000		Kerosene	3/17/1966	7/12/1995	REMOVED FROM GROU	REMOVED FROM GROUND		7/12/1995
OC-5th St Fuel Farm	OC-F54-UST-02	5019359	16174		Unknownnown	5,000		Used Oil	3/17/1966		Removed from Ground			
OC-5th St Fuel Farm	OC-F54-UST-03	5019359	16174		Unknownnown	5,000		Used Oil	3/17/1966		Removed from Ground			
OC-SD200	OC-F600-UST-01	5019359	16174	Navfac Mid-Atlantic - Utilities	Unknownnown	2,000		Diesel	1/1/1970		Removed from Ground	REMOVED FROM GROUND		
OC-	OC-F602-UST-01	5019359	16174		Unknownnown	17,832		Gasoline	3/17/1954	1/1/1987	REMOVED FROM GROU	REMOVED FROM GROUND		1/1/1987
OC-	OC-F603-UST-01	5019359	16174		shown by state as DW	1,000		Gasoline	1/1/1989		Removed from Ground			
OC-FuelFarm	OC-F7-AST-01	5019359	16174	Fleet and Industrial Supply Center - Oceana's Fuels Division	Double Walled Steel in Concrete	1,000	Used Oil Storage	Used JP-5			Active			
OC-FuelFarm	OC-F8-AST-01	5019359	16174		Single Walled Steel	939,259	Bulk Storage	JP-5	1/1/1995		Active			
OC-FuelFarm	OC-F9-AST-01	5019359	16174		Single Walled Steel	937,004	Bulk Storage	JP-5	1/1/1995		Active			
OC-FuelFarm	OC-F9-AST-02	5019359	16174		Double Walled Steel in Concrete	2,000	Water Stripping Tank	Tank Bottom Water	9/1/1997		Active			
OC-	OC-FFA-UST-01	5019359	16174		Unknownnown	1,000		Used Oil	1/1/1979	6/22/1995	REMOVED FROM GROU	REMOVED FROM GROUND		6/22/1995
OC-	OC-FFB-UST-02	5019359	16174		FRP	1,000		Used Oil	1/1/1979	6/22/1995	REMOVED FROM GROU	REMOVED FROM GROUND		6/22/1995
OC-	OC-G5-UST-01	5019359	16174		shown by state as concrete	50,000		Kerosene	1/1/1945	11/1/1985	REMOVED FROM GROU	REMOVED FROM GROUND		11/1/1985
OC-	OC-G6-UST-01	5019359	16174		shown by state as concrete	50,000		Kerosene	1/1/1945	11/1/1985	REMOVED FROM GROU	REMOVED FROM GROUND		11/1/1985
OC-656A, MOQ	OC-H656A-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-656B, MOQ	OC-H656B-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-657A, MOQ	OC-H657A-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-657B, MOQ	OC-H657B-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1994		Removed	NONE		
OC-658A, MOQ	OC-H658A-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-658B, MOQ	OC-H658B-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-659A, MOQ	OC-H659A-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-659B, MOQ	OC-H659B-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-660A, MOQ	OC-H660A-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-660B, MOQ	OC-H660B-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-662, MOQ	OC-H662-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-663, MOQ	OC-H663-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-664, MOQ	OC-H664-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-665, MOQ	OC-H665-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1994		Removed	NONE		
OC-666, MOQ	OC-H666-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-668, MOQ	OC-H668-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-670, MOQ	OC-H670-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-672, MOQ	OC-H672-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-674, MOQ	OC-H674-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-675A, MOQ	OC-H675A-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-675B, MOQ	OC-H675B-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-676, MOQ	OC-H676-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-677A, MOQ	OC-H677A-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-677B, MOQ	OC-H677B-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-678, MOQ	OC-H678-AST	5019359	16174		Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil	1/1/1968		Removed	NONE		
OC-	OC-MOGAS-UST	5019359	16174		Unknownnown	1,000		Gasoline	3/17/1976		Removed from Ground			
OC-Boat Shop	OC-MTS1B-AST	5019359	16174		Single Walled Steel	55	Product Dispenser	none			Removed	NONE		
OC-	OC-NEX-1R-UST	5019359	16174		Unknownnown	20,000	Product Dispenser	Gasoline	3/17/1972		Removed from Ground			
OC-	OC-NEX-1-UST	5019359	16174		Unknownnown	20,000	Product Dispenser	Gasoline	1/1/1972		Removed from Ground			
OC-	OC-NEX-2R-UST	5019359	16174		Unknownnown	20,000	Product Dispenser	Gasoline	3/17/1972		Removed from Ground			
OC-	OC-NEX-2-UST	5019359	16174		Unknownnown	20,000	Product Dispenser	Gasoline	1/1/1972		CURRENTLY IN USE			
OC-	OC-NEX-3R-UST	5019359	16174		Unknownnown	10,000	Product Dispenser	Gasoline	3/17/1974		Removed from Ground			
OC-	OC-NEX-3-UST	5019359	16174		Unknownnown	10,000	Product Dispenser	Gasoline	1/1/1974		Removed from Ground			
OC-PAR	OC-PAR-AST-01	5019359	16174	Precision Approach Radar (PAR)	Single Walled Steel	165	Emergency Generator Base Tank	Diesel			Active			
OC-RW32L	OC-RW32L-AST-01	0	0	Air Operations - Lighting Vault	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel			Active			
OC-RW32L	OC-RW32L-AST-02	0	0	Air Operations - Lighting Vault	Double Bottomed Steel	100	Emergency Generator Day Tank	Diesel			Active			
OC-SD4063	OC-SD4063A-AST	5019359	16174	Navfac Mid-Atlantic - Utilities	Single Walled Steel	275	Emergency Generator Supply	Diesel			Removed	NONE		
OC-SD4063	OC-SD4063-AST-01	5019359	16174	Navfac Mid-Atlantic - Utilities	Double Walled Steel in Concrete	250	Emergency Generator Supply	Diesel	10/1/1995		Active	NONE		
OC-SD600	OC-SD600-AST-01	5019359	16174	Navfac Mid-Atlantic - Utilities	Double Walled Steel in Concrete	500	Emergency Generator Supply	Diesel	1/1/1994		Active	NONE		
OC-601	OC-TK604-UST	5019359	16174	Navfac Mid-Atlantic	Single Walled Steel	1,000	Emergency Generator Supply	Diesel	1/1/1960		POS	CURRENTLY IN USE		
OC-FuelFarm	OC-TL1-AST-01	5019359	16174		Double Walled Steel in Concrete	1,000	Pump and Treat System	Recovered JP-5	9/1/1995		Temporarily Out of Use			
OC-Boat Shop	OC-TS1-AST-02	5019359	16174		Double Walled Steel	250	Heating System Supply	No. 2 Fuel Oil	1/1/1996		Removed	Permanently out of use		
RDF-1515	RDF-1515-AST-01	5017942	26794	Public Works Center	Single Walled Steel	1,500	Lube oil reservoir	Lube Oil			Active			
RDF-1515	RDF-1515-AST-02	5017942	26794	Public Works Center	Single Walled Steel	1,500	Lube oil reservoir	Lube Oil			Active			
RDF-1515	RDF-1515-AST-03	5017942	26794	Public Works Center	Single Walled Steel	1,500	Lube oil reservoir	Lube Oil			Active			
RDF-1515	RDF-1515-AST-04	5017942	26794	Navy Public Works Center	Single Walled Steel	275	Lube oil reservoir	Lube Oil			Unknown	NONE		
RDF-1515	RDF-1515-AST-05	5017942	26794	Navy Public Works Center	Single Walled Steel	275	Lube oil reservoir	Lube Oil			Unknown	NONE		
RDF-1515	RDF-1515-AST-06	5017942	26794	Navy Public Works Center	Single Walled Steel	275	Lube oil reservoir	Lube Oil			Unknown	NONE		
RDF-1515	RDF-1515-AST-07	5017942	26794	Navy Public Works Center	Single Walled Steel	80	Hydraulic fluid storage	Hydraulic Fluid			Unknown	NONE		
RDF-1515	RDF-1515-AST-08	5017942	26794	Navy Public Works Center	Single Walled Steel	80	Hydraulic fluid storage	Hydraulic Fluid			Unknown	NONE		
RDF-1515	RDF-1515-AST-09	5017942	26794	Navy Public Works Center	Single Walled Steel	80	Hydraulic fluid storage	Hydraulic Fluid			Unknown	NONE		
RDF-1517	RDF-1517-AST-01	5017942	26794	Navy Public Works Center	Single Walled Steel	500	Emergency Generator Supply	Diesel			Unknown	NONE		
RDF-1517	RDF-1517-AST-02	5017942	26794	Public Works Center	Single Walled Steel	1,000	Emergency Generator Supply	Diesel			Active			
RDF-1522	RDF-1522-AST-01	5017942	26794	Public Works Center	Single Walled Steel	50,000	Heating System Supply	Diesel			Active			
RDF-1522	RDF-1522-AST-02	5017942	26794		Unknownnown	50,000		Fuel Oil			Active			
RDF-1522	RDF-1522-AST-03	5017942	26794	Navy Public Works Center	Single Walled Steel	275	Equipment fueling	Diesel			Unknown	NONE		
RDF-1522	RDF-1522-AST-04	5017942	26794	Navy Public Works Center	Single Walled Steel	275	Equipment fueling	Diesel			Unknown	NONE		

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
SC-1489	SC-1489-AST-01	5017942	26794	Navy Exchange - Gas Station	Single Walled Steel	475	Used Oil Storage	Used Oil			Removed			
SC-1489	SC-1489-UST-01	5017942	26794		Unknownnown	500		Used Oil	5/6/1977		CURRENTLY IN USE			
SC-1489	SC-1489-UST-02	5017942	26794		Unknownnown	20,000		Gasoline	5/6/1977		Removed from Ground			5/30/2001
SC-1489	SC-1489-UST-03	5017942	26794		Unknownnown	20,000		Gasoline	5/6/1977		Removed from Ground			5/30/2001
SC-1489	SC-1489-UST-04	5017942	26794		Unknownnown	20,000		Gasoline	5/6/1977		Removed from Ground			5/30/2001
SC-1489	SC-1489-UST-05	5017942	26794		Concrete	805		Oily Water	5/6/1977		CURRENTLY IN USE			
SC-1489	SC-1489-UST-06	5017942	26794	Navy Exchange - Gas Station	Double Walled Steel	12,000	Product Dispenser	Gasoline	10/1/2003		Active			
SC-1489	SC-1489-UST-07	5017942	26794	Navy Exchange - Gas Station	Double Walled Steel	8,000	Product Dispenser	Gasoline	10/1/2003		Active			
SC-1509	SC-1509-AST-01	5017942	26794	Morale Welfare & Recreation - Auto Hobby Shop	Single Walled Steel	480	Used Oil Storage	Used Oil			Active			
SC-1509	SC-1509-UST-01	5017942	26794	Morale, Welfare, and Recreation - Auto Hobby Shop	Single Walled Steel	1,500	Heating System Supply	No. 2 Fuel Oil			Closed in Ground			12/3/2003
SC-1509	SC-1509-UST-02	5017942	26794		Unknownnown	550		Used Oil	2/1/1982	2/1/1992	REMOVED FROM GROU	REMOVED FROM GROUND		2/1/1992
SC-343	SC-343-UST-01	5017942	26794	Morale, Welfare, and Recreation - Rental Center	Single Walled Steel	1,500	Heating System Supply	No. 2 Fuel Oil			Removed from Ground			12/3/2003
SC-343	SC-343-UST-02	5017942	26794		Unknownnown	500		Used Oil	5/10/1971		CURRENTLY IN USE			
SG-384	SG-384-AST-01	5017942	26794	Naval Supply Systems Command - Fitting Out and Supply Support Assistance Center	Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil			Active			
SG-384	SG-384-AST-02	5017942	26794	Naval Supply Systems Command - Fitting Out and Supply Support Assistance Center	Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil			Active			
SG-384	SG-384-AST-03	5017942	26794	Naval Supply Systems Command - Fitting Out and Supply Support Assistance Center	Single Walled Steel	275	Heating System Supply	No. 2 Fuel Oil			Active			
SG-385	SG-385-AST-01	5017942	26794	Navfac Mid-Atlantic	Single Walled Steel	500	Emergency Generator Supply	Diesel			POS	NONE		
SG-385	SG-385-AST-02	5017942	26794	Navfac Mid-Atlantic	Double Walled Steel in Concrete	250	Emergency Generator Supply	Diesel	10/1/1996		Active	NONE		
SH-624	SH-624-UST-02	5017932	35917		Unknownnown	12,000		Gasoline	5/5/1966	2/14/1968	REMOVED FROM GROU	REMOVED FROM GROUND		1/4/1990
SH-624	SH-624-UST-03	5017932	35917		Unknownnown	500		Gasoline	5/5/1966	2/14/1968	REMOVED FROM GROU	REMOVED FROM GROUND		1/4/1990
SH-624	SH-624-UST-04	5017932	35917		Concrete	250		Oily Water	5/5/1966		CURRENTLY IN USE			
SH-St. Helena	SH-SH-AST-01	5017932	35917	St. Helena	Unknownnown	250	Heating System Supply	No. 2 Fuel Oil			Active	NONE		
SJ-10	SJ-10-AST-01	5017959	35917	Navfac Mid-Atlantic, Requirements	Single Walled Steel	123	Emergency Generator Supply	Diesel			Removed	NONE		
SJ-10	SJ-10-AST-02	5017959	35917	Navfac Mid-Atlantic, Requirements	Double Walled Steel in Concrete	250	Emergency Generator Supply	Diesel	1/1/2000		Active	CURRENTLY IN USE		
SJ-113	SJ-113-UST-01	5017959	35917		Unknownnown	275		Diesel	5/6/1966	2/14/1990	REMOVED FROM GROU	REMOVED FROM GROUND		2/14/1990
SJ-1556	SJ-1556-AST-01	5017959	35917	Integrated Logistics Overhaul	Single Walled Steel	275	Waste Oil Storage	Used Oil			Removed	NONE		
SJ-1556	SJ-1556-AST-02	5017959	35917	NSN 1st Lt.	Single Walled Steel	1,000	Waste Oil Storage	Rinse booth Waste			Removed	NONE		
SJ-1556	SJ-1556-AST-03	5017959	35917	NSN 1st Lt.	Single Walled Steel	1,000	Waste Oil Storage	Rinse booth Waste			Removed	NONE		
SJ-173	SJ-173-AST-02	5017959	35917	Defense Reutilization & Marketing Office	Single Walled Steel	120	Heating System Supply	No. 2 Fuel Oil	2/1/2001	4/1/2001	Removed	NONE		
SJ-173	SJ-173-AST-03	5017959	35917	Defense Reutilization & Marketing Office	Double Walled Steel in Concrete	500	Heating System Supply	No. 2 Fuel Oil	5/1/2003		Active			
SJ-173	SJ-173-UST-01	5017959	35917	Defense Reutilization & Marketing Office	Unknownnown	275	Heating System Supply	No. 2 Fuel Oil		1/31/2001	Removed from Ground			1/31/2001
SJ-201	SJ-201-UST-01	5017959	35917		Unknownnown	12,000		Gasoline	5/6/1966	1/1/1982	Closed in Ground	CLOSED IN GROUND		1/1/1982
SJ-201	SJ-201-UST-02	5017959	35917		Unknownnown	12,000		Diesel	5/6/1966	1/1/1982	Closed in Ground	CLOSED IN GROUND		1/1/1982
SJ-252	SJ-252-AST-01	5017959	35917	Ocean Construction Support Facility	Double Walled Steel	500	Product Dispenser	Diesel			Active	NONE		
SJ-252	SJ-252-AST-02	5017959	35917	Ocean Construction Support Facility	Double Walled Steel	500	Product Dispenser	Gasoline			Active	NONE		
SJ-252	SJ-252-AST-03	0	0			500	Used Oil Storage	Used Oil			Active			
SJ-263	SJ-263-AST-02	5017959	35917	Navfac Mid-Atlantic	Double Walled Steel in Concrete	250	Emergency Generator Supply	Diesel	6/30/1997		Active	NONE		
SJ-263	SJ-263-UST-01	5017959	35917		Unknownnown	275		Diesel	5/6/1966	5/6/1986	Closed in Ground	CLOSED IN GROUND		5/6/1986
SJ-266	SJ-266-UST-01	5017959	35917		Concrete	300		Oily Water	5/6/1956		Unknown	CURRENTLY IN USE		
SJ-268	SJ-268-AST-01	5017959	35917	Navfac Mid-Atlantic, Utilities	Closed Top Diked Steel	190	Emergency Generator Base Tank	Diesel	1/1/1997		Active			
SJ-271	SJ-271-AST-01	5017959	35917	Fire Station	Single Walled Steel	550	Heating System Supply	No. 2 Fuel Oil			Removed	NONE		
SJ-271	SJ-271-AST-02	5017959	35917	Fire Station	Single Walled Steel	120	Emergency Generator Supply	Diesel			Removed	NONE		
SJ-271	SJ-271-AST-04	5017959	35917	Fire Station	Double Walled Steel in Concrete	500	Heating System Supply	No. 2 Fuel Oil	1/1/2000		Active			
SJ-271	SJ-271-AST-05	5017959	35917	Fire Station	Double Walled Steel in Concrete	275	Emergency Generator Supply	Diesel	1/1/2000		Active			
SJ-271	SJ-271-UST-01	5017959	35917		Concrete	800		Unknownnown	5/6/1976		Removed	CURRENTLY IN USE		
SJ-283/321/385	SJ-283-AST-01	5017959	35917	Navfac Mid-Atlantic	Double Walled Steel in Concrete	550	Emergency Generator Supply	Diesel			Active	NONE		
SJ-283/321/385	SJ-283-AST-02	5017959	35917	Navfac Mid-Atlantic, Utilities - Steam Commodity	Single Walled Steel	100,000	Heating System Supply	No. 2 Fuel Oil	9/1/1994		Active			
SJ-283/321/385	SJ-283-UST-03	5017959	35917		FRP	8,000		Diesel	5/6/1976		Removed from Ground	CURRENTLY IN USE		
SJ-283/321/385	SJ-283-UST-04	5017959	35917		Concrete	500		Oily Water	5/6/1976		Unknown	CURRENTLY IN USE		
SJ-283/321/385	SJ-283-UST-05	5017959	35917		Unknownnown	550		Diesel	5/6/1966	1/22/1993	REMOVED FROM GROU	REMOVED FROM GROUND	4/19/1993	1/22/1993
SJ-319	SJ-319-UST-01	0	0			0	Unknownnown	Unknownnown			Removed from Ground			
SJ-283	SJ-321-AST-01	5017959	35917	Navy Public Works Center, Utilities - Steam Commodity	Single Walled Steel	25,000	Heating System Supply	Fuel Oil			Temporarily Out of Use			
SJ-283/321/385	SJ-321-AST-02	5017959	35917	Navfac Mid-Atlantic, Utilities - Steam Commodity	Single Walled Steel	25,000	Heating System Supply	Fuel Oil			Temporarily Out of Use			
SJ-283/321/385	SJ-321-AST-03	5017959	35917	Navfac Mid-Atlantic, Utilities - Steam Commodity	Single Walled Steel	15,000	Heating System Supply	Fuel Oil			Temporarily Out of Use			
SJ-283/321/385	SJ-321-AST-04	5017959	35917	Navfac Mid-Atlantic, Utilities - Steam Commodity	Single Walled Steel	15,000	Heating System Supply	Fuel Oil			Temporarily Out of Use			
SJ-283/321/385	SJ-385-AST-01	5017959	35917	Navfac Mid-Atlantic	Single Walled Steel	275	Stand-by for use where needed	Diesel			Temporarily Out of Use	NONE		
SJ-400	SJ-400-AST-00	5017959	35917		Double Walled Steel in Concrete	1,000		Diesel			REMOVED	CURRENTLY IN USE		
SJ-400	SJ-400-AST-01	5017959	35917	Defense Reutilization & Marketing Office	Double Walled Steel in Concrete	550	Product Dispenser	Diesel			Active	NONE		
SJ-400	SJ-400-UST-01	5017959	35917		fiberglass shown by state as having lined interior	1,000		Diesel	8/1/1982	5/18/1993	REMOVED FROM GROU	REMOVED FROM GROUND		5/18/1993
SJ-400	SJ-400-UST-02	5017959	35917		fiberglass shown by state as having lined interior	1,000		Gasoline	8/1/1982	1/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND		1/1/1990
SJ-47	SJ-47-AST-01	5017959	35917	Shore Intermediate Maintenance Acitivity	Single Walled Steel	500	Product Dispenser	Diesel			Removed	NONE		
SJ-47	SJ-47-AST-02	5017959	35917	Shore Intermediate Maintenance Acitivity	Single Walled Steel	500	Product Dispenser	Gasoline			Removed	NONE		
SY-174	SY-1250-AST-01	5017942	26794	Navfac Mid-Atlantic	Single Walled Steel	6,000	Supplies fuel to peak shaving generator system	Diesel			POS	ACTIVE		
SY-174	SY-1251-AST-01	5017942	26794	Navfac Mid-Atlantic	Single Walled Steel	6,000	Supplies fuel to peak shaving generator system	Diesel			POS	ACTIVE		
SY-174	SY-1252-AST-01	5017942	26794	Navfac Mid-Atlantic	Single Walled Steel	11,000	Supplies fuel to peak shaving generator system	Diesel			POS	ACTIVE		
SY-174	SY-1253-AST-01	5017942	26794	Navfac Mid-Atlantic	Single Walled Steel	11,000	Supplies fuel to peak shaving generator system	Diesel			POS	ACTIVE		
SY-174	SY-1254-AST-01	5017942	26794	Navfac Mid-Atlantic	Single Walled Steel	11,000	Supplies fuel to peak shaving generator system	Diesel			POS	ACTIVE		
SY-174	SY-1255-AST-01	5017942	26794	Navfac Mid-Atlantic	Single Walled Steel	11,000	Supplies fuel to peak shaving generator system	Diesel			POS	ACTIVE		
SY-1341	SY-1341-UST-01	5017942	26794		Concrete	9,800		Unknownnown	5/6/1971		CURRENTLY IN USE			
SY-1460	SY-1460-UST-01	5017942	26794		Concrete	2,600		Oily Water	5/5/1976		CURRENTLY IN USE			
SY-1460	SY-1460-UST-02	5017942	26794		Concrete	1,700		Oily Water	5/5/1976		CURRENTLY IN USE			
SY-1460	SY-1460-UST-03	5017942	26794		Concrete	95,000		Unknownnown	5/5/1976		CURRENTLY IN USE			
SY-1485	SY-1485-AST-01	5017942	26794	Navfac Mid-Atlantic	Double Walled Steel in Concrete	250	Emergency Generator Supply	Diesel			NNSY owned			
SY-1485	SY-1485-AST-02	5017942	26794	Navfac Mid-Atlantic	Double Walled Steel	100	Emergency Generator Day Tank	Diesel			NNSY owned			
SY-1485	SY-1485-UST-01	5017942	26794		Concrete	1,200		Unknownnown	5/5/1976		CURRENTLY IN USE			
SY-1500	SY-1500-AST-02	5017942	26794		Double Walled Steel in Concrete	2,000	Emergency Generator Supply	Diesel	1/9/1995		Active			
SY-1500	SY-1500-UST-01	5017942	26794		Unknownnown	3,000		Diesel	5/5/1981	5/13/1993	REMOVED FROM GROU	REMOVED FROM GROUND	5/20/1993	5/13/1993
SY-1501	SY-1501-UST-01	5017942	26794		Concrete	2,500		Oily Water	5/5/1978		CURRENTLY IN USE			

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
SY-1512	SY-1512-UST-01	5017942	26794		Concrete shown by state as having lined interior	3,000		MIXTURE	5/5/1984		CURRENTLY IN USE			
SY-1517	SY-1517-AST-01	5017942	26794		Unknownnown	1,000		Diesel			POS		4/19/1996	1/17/1996
SY-1580	SY-1580-AST-01	5017942	26794	Navfac Mid-Atlantic, Utilities - Peak Shaving Generators	Double Walled Steel	500	Emergency Generator Day Tank	Diesel	6/1/1997		Active	NONE		
SY-1580	SY-1580-AST-02	5017942	26794	Navfac Mid-Atlantic, Utilities - Peak Shaving Generators	Double Walled Steel	500	Emergency Generator Day Tank	Diesel	6/1/1997		Active	NONE		
SY-1582	SY-1582-AST-01	5017942	26794	Navfac Mid-Atlantic	Double Bottomed Steel	1,000	Fire Pump Supply	Diesel			Active			
SY-1586	SY-1586-AST-01	5017942	26794	Navfac Mid-Atlantic, Utilities - Peak Shaving Generators	Single Walled Steel	25,000	Emergency Generator Supply	Diesel	2/1/2000		Active	ACTIVE		
SY-1587	SY-1587-AST-01	5017942	26794	Navfac Mid-Atlantic, Utilities - Peak Shaving Generators	Single Walled Steel	25,000	Emergency Generator Supply	Diesel	2/1/2000		Active	ACTIVE		
SY-163	SY-163-UST-01	5017942	26794		Concrete	180		HAZARD	5/5/1978		CURRENTLY IN USE			
SY-171	SY-171-UST-01	5017942	26794		Unknownnown	12,000		Fuel Oil	8/4/1951	12/7/1989	REMOVED FROM GROU	REMOVED FROM GROUND		12/7/1989
SY-171	SY-171-UST-02	5017942	26794		Unknownnown	12,000		Fuel Oil	8/4/1951	12/7/1989	REMOVED FROM GROU	REMOVED FROM GROUND		12/7/1989
SY-174	SY-174-AST-06	5017942	26794	Navfac Mid-Atlantic	Single Walled Steel	400	Water separator for peak shaving generator system	Diesel			Removed	NONE		
SY-174	SY-174-AST-07	5017942	26794	Navfac Mid-Atlantic	Single Walled Steel	400	Water separator for peak shaving generator system	Diesel			Removed	NONE		
SY-174	SY-174-UST-01	5017942	26794		Concrete	68,000		Unknownnown	5/5/1966		CURRENTLY IN USE			
SY-174	SY-174-UST-02	5017942	26794		Concrete	500		Unknownnown	5/5/1966		CURRENTLY IN USE			
SY-174	SY-174-UST-03	5017942	26794		Concrete	2,000,000		Fuel Oil	5/5/1966		CURRENTLY IN USE			
SY-174	SY-174-UST-04	5017942	26794		Concrete	4,500		Unknownnown	5/5/1966		CURRENTLY IN USE			
SY-174	SY-174-UST-05	5017942	26794		Concrete	3,400		Unknownnown	5/6/1979		CURRENTLY IN USE			
SY-195	SY-195-UST-01	5017942	26794		Concrete	1,173		HAZARD	5/5/1984		CURRENTLY IN USE			
SY-195	SY-195-UST-02	5017942	26794		Concrete	1,173		HAZARD	5/5/1984		CURRENTLY IN USE			
SY-195	SY-195-UST-03	5017942	26794		Concrete	1,173		HAZARD	5/5/1984		CURRENTLY IN USE			
SY-195	SY-195-UST-04	5017942	26794		Concrete	189,000		HAZARD	5/5/1984		CURRENTLY IN USE			
SY-195	SY-195-UST-05	5017942	26794		Concrete	18,000		HAZARD	5/5/1984		CURRENTLY IN USE			
SY-195	SY-195-UST-06	5017942	26794		Concrete	8,000		HAZARD	5/5/1984		CURRENTLY IN USE			
SY-19	SY-19-AST-01	5017942	26794	Navfac Mid-Atlantic	Single Walled Steel	500	Emergency Generator Base Tank	Diesel			Active			
SY-202	SY-202-UST-01	5017942	26794		Concrete	1,400		MIXTURE	5/5/1976		CURRENTLY IN USE			
SY-202	SY-202-UST-02	5017942	26794		Concrete	800		MIXTURE	5/5/1976		CURRENTLY IN USE			
SY-235	SY-235-AST-02	5017942	26794		Unknownnown	1,000		Diesel	1/9/1995		NNSY owned			
SY-235	SY-235-UST-00	5017942	26794		Concrete	2,600		Oily Water	5/5/1966		CURRENTLY IN USE			
SY-235	SY-235-UST-01	5017942	26794		Unknownnown	1,000		Diesel	5/5/1966	12/1/1989	REMOVED FROM GROU	REMOVED FROM GROUND		12/18/1990
SY-236	SY-236-AST-01	5017942	26794	Navfac Mid-Atlantic	Single Walled Steel	22,000	Equipment fueling	Diesel			POS	ACTIVE		
SY-236	SY-236-UST-01	5017942	26794		Unknownnown	550		Diesel	1/1/1941	12/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND		12/26/1991
SY-236	SY-236-UST-02	5017942	26794		Unknownnown	550		Diesel	1/1/1952	12/1/1991	REMOVED FROM GROU	REMOVED FROM GROUND		12/26/1991
SY-236	SY-236-UST-03	5017942	26794		Concrete	2,600		Oily Water	8/15/1979		CURRENTLY IN USE			
SY-236	SY-236-UST-04	5017942	26794		Unknownnown	120		Gasoline	8/15/1955	5/8/1986	Closed in Ground	CLOSED IN GROUND		5/8/1986
SY-237	SY-237-AST-08	5017942	26794	Navfac Mid-Atlantic, Transportation - Gas Station	Double Walled Steel in Concrete	10,000	Product Dispenser	Diesel	6/27/1997		Active	ACTIVE		
SY-237	SY-237-AST-09	5017942	26794	Navfac Mid-Atlantic, Transportation - Gas Station	Double Walled Steel in Concrete	10,000	Product Dispenser	Diesel	6/27/1997		Active	ACTIVE		
SY-237	SY-237-AST-10	5017942	26794	Navfac Mid-Atlantic, Transportation - Gas Station	Double Walled Steel in Concrete	2,000	Product Dispenser	Diesel	6/27/1997		Active	ACTIVE		
SY-237	SY-237-UST-01	5017942	26794		Unknownnown	12,900		Gasoline	8/14/1969	1/1/1985	Closed in Ground	CLOSED IN GROUND		1/1/1985
SY-237	SY-237-UST-02	5017942	26794		Unknownnown	12,900		Gasoline	8/14/1969	1/1/1985	Closed in Ground	CLOSED IN GROUND		1/1/1985
SY-237	SY-237-UST-03	5017942	26794	Navfac Mid-Atlantic, Transportation - Gas Station	Single Walled FRP	12,000	Product Dispenser	Gasoline	1/1/1984		Active	CURRENTLY IN USE		
SY-237	SY-237-UST-04	5017942	26794	Navfac Mid-Atlantic, Transportation - Gas Station	Single Walled FRP	12,000	Product Dispenser	Gasoline	1/1/1984		Active	CURRENTLY IN USE		
SY-237	SY-237-UST-06	5017942	26794		Unknownnown	10,500		Gasoline	8/15/1939	12/29/1989	REMOVED FROM GROU	REMOVED FROM GROUND		12/29/1989
SY-237	SY-237-UST-07	5017942	26794		Unknownnown	10,500		Gasoline	8/15/1939	12/29/1989	REMOVED FROM GROU	REMOVED FROM GROUND		12/29/1989
SY-238	SY-238-UST-01	5017942	26794		Unknownnown	8,000		Oily Water	5/5/1982		CURRENTLY IN USE			
SY-238	SY-238-UST-02	5017942	26794		Concrete	10,000		Unknownnown	5/5/1982		CURRENTLY IN USE			
SY-238	SY-238-UST-03	5017942	26794	Navfac Mid-Atlantic, Utilities - Peak Shaving Generators	Single Walled Steel	8,000	Emergency spill containment	Used Oil			Active			
SY-261	SY-261-UST-01	5017942	26794		shown by state as epoxy coated	550		Diesel	4/4/1987	2/27/1993	Removed from Ground	REMOVED FROM GROUND		2/27/1993
SY-268	SY-268-UST-01	5017942	26794		Concrete	2,600		Oily Water	5/5/1966		Currently in Use			
SY-275	SY-275-UST-01	5017942	26794		Unknownnown	300		HAZARD	1/1/1942	12/1/1959	REMOVED FROM GROU	REMOVED FROM GROUND		12/8/1992
SY-275	SY-275-UST-02	5017942	26794		Unknownnown	300		Unknownnown	1/1/1942	12/1/1959	REMOVED FROM GROU	REMOVED FROM GROUND		12/8/1992
SY-275	SY-275-UST-03	5017942	26794		Unknownnown	300		HAZARD	1/1/1942	12/1/1959	REMOVED FROM GROU	REMOVED FROM GROUND		12/8/1992
SY-275	SY-275-UST-04	5017942	26794		Unknownnown	300		Unknownnown	1/1/1942	12/1/1959	REMOVED FROM GROU	REMOVED FROM GROUND		12/8/1992
SY-275	SY-275-UST-05	5017942	26794		Unknownnown	300		Unknownnown	1/1/1942	12/1/1959	REMOVED FROM GROU	REMOVED FROM GROUND		12/8/1992
SY-276	SY-276-UST-01	5017942	26794		Unknownnown	12,000		Fuel Oil	1/1/1940	1/1/1945	Closed in Ground	CLOSED IN GROUND		1/1/1945
SY-276	SY-276-UST-02	5017942	26794		Unknownnown	12,000		Fuel Oil	1/1/1940	1/1/1945	Closed in Ground	CLOSED IN GROUND		1/1/1945
SY-278	SY-278-AST-01	5017942	26794	Navfac Mid-Atlantic	Double Walled Steel in Concrete	500	Used Oil Storage	Used Oil	9/1/1995		Active	NONE		
SY-281	SY-281-UST-01	5017942	26794		Unknownnown	28,000		Fuel Oil	8/3/1949	1/23/1992	REMOVED FROM GROU	REMOVED FROM GROUND		1/23/1992
SY-310	SY-310-UST-01	5017942	26794		Unknownnown	8,000		Fuel Oil	1/1/1940		Closed in Ground	CLOSED IN GROUND		1/1/1945
SY-419	SY-419-UST-01	5017942	26794		Unknownnown	10,000		Gasoline	8/14/1949	1/16/1990	REMOVED FROM GROU	REMOVED FROM GROUND		1/16/1990
SY-419	SY-419-UST-02	5017942	26794		Unknownnown	5,000		Gasoline	8/14/1944	1/16/1990	REMOVED FROM GROU	REMOVED FROM GROUND		1/16/1990
SY-419	SY-419-UST-03	5017942	26794		Unknownnown	5,000		Gasoline	8/14/1944	1/16/1990	REMOVED FROM GROU	REMOVED FROM GROUND		1/16/1990
SY-431	SY-431-UST-01	5017942	26794		FRP	10,000		Used Oil	1/1/1982	1/1/1982	REMOVED FROM GROU	REMOVED FROM GROUND	1/24/1994	12/21/1993
SY-431	SY-431-UST-02	5017942	26794		Concrete	4,500		Used Oil	5/6/1982		CURRENTLY IN USE			
SY-431	SY-431-UST-03	5017942	26794		Concrete	4,500		Used Oil	5/6/1982		CURRENTLY IN USE			
SY-431	SY-431-UST-04	5017942	26794		Concrete	4,500		Used Oil	5/6/1982		CURRENTLY IN USE			
SY-431	SY-431-UST-05	5017942	26794		Concrete	4,500		Used Oil	5/6/1982		CURRENTLY IN USE			
SY-431	SY-431-UST-06	5017942	26794		Concrete	1,800		Used Oil	5/6/1982		CURRENTLY IN USE			
SY-431	SY-431-UST-07	5017942	26794		Concrete	120,000		Used Oil	5/6/1982		CURRENTLY IN USE			
SY-431	SY-431-UST-08	5017942	26794		Concrete	120,000		Used Oil	1/1/1982		CURRENTLY IN USE			
SY-481	SY-481-UST-01	5017942	26794		Unknownnown	5,000		Diesel	8/1/1960	8/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND		8/1/1990
SY-481	SY-481-UST-02	5017942	26794		Unknownnown	5,000		Diesel	8/1/1960	8/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND		8/1/1990
SY-481	SY-481-UST-03	5017942	26794		Unknownnown	5,000		Diesel	8/1/1960	8/1/1990	REMOVED FROM GROU	REMOVED FROM GROUND		8/1/1990
SY-507	SY-507-AST-01	5017942	26794	Navfac Mid-Atlantic, Utilities	Closed Top Diked Steel	150	Emergency Generator Base Tank	Diesel			Active			
SY-508	SY-508-UST-01	5017942	26794		Unknownnown	1,500		Unknownnown	8/24/1988	8/1/1989	REMOVED FROM GROU	REMOVED FROM GROUND		8/1/1989
SY-510	SY-510-UST-01	5017942	26794		Concrete	8,000		MIXTURE	5/5/1976		CURRENTLY IN USE			
SY-510	SY-510-UST-02	5017942	26794		Concrete	8,000		MIXTURE	5/5/1976		CURRENTLY IN USE			
SY-599	SY-599-UST-01	5017942	26794		Concrete	300		Oily Water	5/5/1966		CURRENTLY IN USE			
SY-60	SY-60-AST-00	5017942	26794	Navfac Mid-Atlantic	Single Walled Steel	275	Emergency Generator Supply	Diesel			POS	NONE		
SY-60	SY-60-AST-01	5017942	26794	Navfac Mid-Atlantic, Utilities	Double Walled Steel in Concrete	250	Emergency Salt Water Pump Supply	Diesel	5/20/1996		Active	NONE		
SY-9	SY-9-UST-01	5017942	26794		Unknownnown	12,000		Fuel Oil	8/14/1924	11/21/1989	REMOVED FROM GROU	REMOVED FROM GROUND		11/21/1989
SY-9	SY-9-UST-02	5017942	26794		Unknownnown	12,000		Fuel Oil	8/14/1924	11/21/1989	REMOVED FROM GROU	REMOVED FROM GROUND		11/21/1989

Table 2-1
List of Tanks and Status
NAV FAC MID LANT Tank Database
FY 2006 POL SMP

Facility - Building	Unique ID	VDEQ Facility ID	VDEQ Owner ID	ActivityName	Tank Construction	Tank Capacity	Usage	Contents	Date Installed	Date Last Used	Status	StateStatus	Date Closure Authority	Date Closed
SY-Dry Dock 2	SY-DDOCK2-AST-01	5017942	26794	Navfac Mid-Atlantic, Utilities	Single Walled Steel	200	Emergency Salt Water Pump Base Tank	Diesel			Active			
SY-Dry Dock 4	SY-DDOCK4-AST-01	5017942	26794	Navfac Mid-Atlantic, Utilities	Single Walled Steel	250	Emergency Salt Water Pump Base Tank	Diesel			Active			
SY-Dry Dock 8	SY-DDOCK8-AST-01	5017942	26794	Navfac Mid-Atlantic, Utilities	Single Walled Steel	75	Emergency Salt Water Pump Base Tank	Diesel			Active			
SY-	SY-LOT-UST-01	5017942	26794		Unknownnown	6,000		Gasoline	1/1/1940	1/16/1990	REMOVED FROM GROU	REMOVED FROM GROUND		1/16/1990
SY-	SY-LOT-UST-02	5017942	26794		Unknownnown	6,000		Gasoline	1/1/1940	1/16/1990	REMOVED FROM GROU	REMOVED FROM GROUND		1/16/1990
SY-	SY-PARK-UST-01	5017942	26794		Unknownnown	12,000		Gasoline	8/14/1944	11/17/1989	REMOVED FROM GROU	REMOVED FROM GROUND		11/17/1989
SY-	SY-PARK-UST-02	5017942	26794		Unknownnown	12,000		Gasoline	8/14/1944	11/17/1989	REMOVED FROM GROU	REMOVED FROM GROUND		11/17/1989
SY-PIER6	SY-PIER6-AST-01	5017942	26794	Navfac Mid-Atlantic, Utilities	Single Walled Steel	250	Emergency Salt Water Pump Base Tank	Diesel			Active			
SY-PIER6	SY-PIER6-AST-02	5017942	26794	Navfac Mid-Atlantic, Utilities	Single Walled Steel	250	Emergency Salt Water Pump Base Tank	Diesel			Active			
SY-Various	SY-PORT-AST-01	5017942	26794	Navfac Mid-Atlantic	Single Walled Steel	500	Supplies fuel to portable pump	Diesel			Unknown	NONE		
SY-Various	SY-PORT-AST-02	5017942	26794	Navfac Mid-Atlantic	Single Walled Steel	275	Supplies fuel to portable pump	Diesel			Unknown	NONE		
SY-Various	SY-PORT-AST-03	5017942	26794	Navfac Mid-Atlantic	Single Walled Steel	300	Emergency Generator Supply	Diesel	7/1/1996		Temporarily Out of Use	NONE		
SY-PIER6	SY-PORT-AST-04	5017942	26794	Navfac Mid-Atlantic, Utilities	Single Walled Steel	250	Emergency Salt Water Pump Base Tank	Diesel			Temporarily Out of Use			

SECTION 3

Facility Descriptions

The following subsections present a brief history and description of each facility. **Table 3-1** lists each POL site, the corrective action, remedial endpoints, and post-operational requirements.

3.1 Naval Amphibious Base Little Creek

Naval Amphibious Base (NAB) Little Creek consists of 2,147 acres located in the northwest corner of Virginia Beach, Virginia, adjacent to the Chesapeake Bay (**Figure 3-1**). NAB Little Creek was commissioned July 30, 1945 to train landing craft personnel for operational assignments. The facility is primarily industrial and the personnel provide logistic facilities and support services for local commands, organizations, homeported ships, and other United States and allied units to meet amphibious warfare training requirements of the Armed Forces of the United States. NAB Little Creek is also used for recreational, commercial, and residential purposes. Land development surrounding the base is residential, commercial, and industrial. The one active POL site (Piers 11-19) and one recently closed site (Auto Hobby Shop) at NAB Little Creek is shown on **Figure 3-1**.

3.2 Naval Support Activity Norfolk, Northwest Annex

Naval Support Activity (NSA) Norfolk, Northwest (NW) Annex consists of approximately 4,500 acres on the Virginia/North Carolina border in Chesapeake, Virginia (**Figure 3-2**). The facility was commissioned as the United States Navy Radio Station Northwest on January 1, 1954 to serve as a communications receiving facility for naval activities in the area. Historical and ongoing activities at the facility consist of radio communications, radar activities, security training including small arms training, and support activities such as retail, recreation, child care, counseling, and healthcare. The one active POL site (NEX Gas Station) located within the facility is shown on **Figure 3-2**.

3.3 St. Juliens Creek Annex

St. Juliens Creek Annex (SJCA) is a 490-acre facility situated at the confluence of St. Juliens Creek and the Southern Branch of the Elizabeth River in the City of Chesapeake, Virginia (**Figure 3-3**). Most surrounding areas are developed and include residences, schools, recreational areas, and shipping facilities for several large industries. SJCA began operations as a naval ammunition facility in 1849. Past operations at SJCA have included general ordnance operations involving wartime transfer of ammunitions to various other naval facilities throughout the United States and abroad. Activity at SJCA has decreased in recent years and all ordnance-related activities have been discontinued. SJCA's current primary mission is to provide a radar-testing range and various administrative and warehousing facilities for nearby Norfolk Naval Shipyard (NNSY) and other local naval activities. The one active POL site (Building 271) located at SJCA is shown on **Figure 3-3**.

3.4 Norfolk Naval Shipyard

The NNSY is a 533-acre facility located on the Southern Branch Elizabeth River, approximately 1.5 miles to the north of SJCA (**Figure 3-4**). NNSY has been continuously operated since 1767 and is currently used exclusively for ship repair and overhaul. The present Shipyard and the nearby Navy-owned noncontiguous areas include: the Main Shipyard, Southgate Annex, Scott Center Annex, New Gosport, and the Paradise Creek Disposal Area. The two active POL sites [Building 174 and Southeastern Public Service Authority (SPSA)] located at NNSY are shown on **Figure 3-4**.

3.5 Craney Island

Fleet Industrial Supply Center (FISC) Craney Island covers almost 874 acres on the western bank of the Elizabeth River in Portsmouth, Virginia (**Figure 3-5**). In 1938, the United States Navy acquired a 40-acre area of Craney Island to be used for fuel storage and fueling operations. Today, FISC Craney Island is the largest naval fuel terminal in the world. The facility's current mission is to receive, store, and issue fuels for naval activities. The facility includes bulk fuel storage tanks, above and below ground piping, fuel pump stations and dispensing systems, and pier side fuel facilities. Craney Island also includes a stormwater collection system comprised of buried concrete pipes, open lined concrete channels, collection and separator stations, and discharge outfalls. The seven active POL sites (Tank 272, Tank 275, Tank 125, French Drain, Tank 11, and Tank 10) and the one recently closed site (Pumphouse 95) located within the Craney Island facility are shown on **Figure 3-5**.

3.6 Naval Station Norfolk

Naval Station Norfolk (NSN), the largest naval base in the United States, is situated on 4,631 acres of land in the northwest portion of Norfolk, Virginia (**Figure 3-6**). NSN began operations in 1917 to support World War I activities. The mission of NSN is to provide fleet support and readiness for the United States Atlantic Fleet. NSN currently includes approximately 4,000 buildings, 20 piers, and an airfield. Land use in the surrounding area is commercial, industrial, and residential. The waterfront area south of the NSN provides shipping facilities and a network of rail lines for several large industries. The ten active POL sites (Piers B, C, and D, LP Fuel Farm, SP Fuel Farm, Building U117, SC-413/124, Bousch Creek, NH-94, NH-95, LP-45 and LP-209) located at NSN are shown on **Figure 3-6**.

3.7 Naval Air Station Oceana

Naval Air Station (NAS) Oceana, located in Virginia Beach, Virginia, was established in 1940 as a small, auxiliary airfield. Since 1940, NAS Oceana has grown to more than 16 times its original size and is now a 6,000-acre master jet base supporting a community of more than 9,700 Navy personnel and 12,300 dependents. The primary mission of NAS Oceana is to provide personnel, operations, maintenance, and training facilities to ensure that fighter and attack squadrons on aircraft carriers of the United States. Atlantic Fleet are ready for deployment. Twelve of the 13 active POL sites (Fuel Farm, 5th Street, FITWING, EM Loop, MATWING, Day Tank, T-Line, SWMU 2E, UST 3003A, Jet Test Cell, F8/F9, and NEX Gas

Station) located at NAS Oceana are shown on **Figure 3-7**. The remaining POL site is located on property owned by NAS Oceana at the Navy Range, Dare County in Stumpy Point, North Carolina.

Facility	POL Site	Remedial Endpoints		Monitoring Points Not Meeting Endpoints	Post-Operational Requirements
NAB Little Creek	Auto Hobby Shop	***Groundwater***			After remedial endpoint is met for 6 consecutive months, system will be taken offline. Conduct quarterly monitoring for 1 year following deactivation. If remedial endpoints are exceeded at any time during post-operation, system must be reactivated. After 1 year, the remediation system will be dismantled and all monitoring wells must be abandoned.
		Free Product	0.01 ft	Site Closure (August 21, 2008)	
	Piers 11-19	***Groundwater***			After remedial endpoint for free product is met for 6 consecutive months, system will be taken offline. Conduct quarterly monitoring for 1 year following deactivation. If remedial endpoint is exceeded at any time during post-operation, the system must be reactivated. Following the final round of monitoring, all monitoring wells must be abandoned.
		Free Product	0.01 ft	MW01, MW07,MW08, MW16, MW18 (September 2008)	
Northwest	NEX Gas Station	***Groundwater***			After remedial endpoints are met for 6 consecutive months, product recovery will be discontinued. Conduct quarterly monitoring for 1 year following discontinuation of recovery. If remedial endpoints are exceeded at any time during post-operational monitoring period, additional product recovery must be initiated. The system wil be dismantled after remedial endpoints have been achieved for four consecutive quaters and all monitoring wells must be abandoned.
		Free Product	0.01 ft	None (September 2008)	
		Benzene	5 µg/l	MW15, MW16 (July 2008)	
		Toluene	2,000 µg/l	None (July 2008)	
		Ethylbenzene	700 µg/l	None (July 2008)	
		Total Xylenes	10,000 µg/l	None (July 2008)	
St. Juliens Creek Annex	Building 271	***Groundwater***			No CAP has been completed for this site; once remedial endpoint (<0.01 free product) is achieved for 6 consecutive months, all monitoring wells must be abandoned.
		Free Product	0.01 ft	MW-01, MW-03, MW05 (September 2008)	
Norfolk Naval Shipyard	Building 174	***Groundwater***			No visible free product or significant changes in conditions at manhole 543 and inside tank 402 for one year after the remedial endpoints are achieved for six consecutive months. An additional year of quarterly monitoring must be commpleted without endpoint exceedance before all monitoring wells are abandoned.
		Free Product	0.01 ft	MW02, MWC, MWD (September 2008)	
	SPSA	***Groundwater***			Removal of product recovery drums and monitoring well abandonment.
		Free Product	0.01 ft	MW11 (July 2008)	
Craney Island	Tank 272	***Groundwater***			After remedial endpoint is met for 6 consecutive months, system will be taken offline. Conduct semi-annual monitoring for 1 year following deactivation. If remedial endpoints are exceeded at any time during post-operation, monitoring and system may be reactivated. Monitoring wells and trecovery trench would be left in-place.
		Free Product	0.01 ft	TRW-2, TRW-3, TRW-4, RW-A,RW-B, RW-C, RW-D, RW-F,RW-G, RW-H, RW-I, RW-J, RW-K, RW-L, RW-M, RW-N, RW-O, RW-P, RW-R, RW-S, RW-U, MW-1, MW-2, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-21, MW-22, MW-24, MW-26, MW-28, and MW-30 (September 2008)	
		Naphthalene	23.5 µg/l	MW23 (November 2007)	
	Tank 275	***Groundwater***			After remedial endpoint is met for 6 consecutive months, system will be taken offline. Conduct semi-annual monitoring for 1 year following deactivation. If remedial endpoints are exceeded at any time during post-operation, monitoring and system may be reactivated. Recovery trench and treatment system would be left in-place.
		Free Product	0.01 ft	MW-20, MW-21, MW-22, MW-24, MW-26, MW-27, MW-30, MW-40, MW-41, MW-42, MW-43, MW-50, MW-51, MW-52, MW-53, MW-54, MW-55, MW-60, MW-61, MW-62, MW-63, MW-64, MW-65, MW-66, MW-67, MW-68, MW-69, MW-70, MW-71, MW-72, MW-73, MW-75, MW-76, MW-77, MW-79, MW-80, MW-81, MW-82, Hill-02, SS-05, RW-01, RW-02, RW-03, RW-04, RW-06, RW-08, RW-09, RW-10, RW-11, RW-12, RW-13, RW-14, RW-15, RW-16, SU-1, SU-3, SU-4 (September 2008)	
		Naphthalene	23.5 µg/l	None (September 2007)	
	Tank 125	***Groundwater***			After remedial endpoint is met for 6 consecutive months, system will be taken offline. Conduct quarterly monitoring for 1 year following deactivation. If remedial endpoints are exceeded at any time during post-operation, system must be reactivated.The biosparge system will be removed. Monitoring wells will remain in-place.
		Free Product	0.01 ft	RW-01, RW-03, RW-04, RW-06, RW-07, RW-08, RW-09, RW-10, RW-12, RW-15, RW-16, RW-17, RW-18, RW-19, RW-20, RW-21, RW-22, RW-23, RW-24, RW-25, GT-03, GT-04, GT-05, MW-01, ESE-01, ESE-03, ESE-04, ESE-05 (September 2008)	
	Pumphouse 58	***Groundwater***			After remedial endpoint is met for 6 consecutive months, system will be taken offline. Conduct quarterly monitoring for 1 year following deactivation. If remedial endpoints are exceeded at any time during post-operation, system must be reactivated.The biosparge system will be removed. Monitoring wells will remain in-place.
		Free Product	0.01 ft	MW-01, MW-03, RW-02, RW-03, RW-04 (September 2008)	
	French Drain	***Groundwater***			
		Free Product	0.01 ft	FD-03, FD-08, FD-09 (September 2008)	
		Soil			
		TPH	100 µg/l		
	Tank 11	***Groundwater***			
		Free Product	0.01 ft	RW-11-1 (September 2008)	
	Pumphouse 95	***Groundwater***			Abandon Monitoring Wells
		Free Product	0.01 ft	Site Closure (August 5, 2008)	
	Tank 10	***Groundwater***			No CAP has been completed for this site.
		Free Product	0.01 ft		

Facility	POL Site	Remedial Endpoints		Monitoring Points Not Meeting Endpoints	Post-Operational Requirements
Naval Station Norfolk	Piers B, C, and D	***Groundwater***			After remedial endpoint is met for 1 year, system should be taken offline. Conduct monthly monitoring for 6 months following deactivation. If remedial endpoint is exceeded during post-operation, system must be reactivated.
		Free Product	0.01 ft	**Pier Area B -** RW-B1, RW-B3, OW-B1, OW-B3 (September 2008) **Pier Area C** - RW-C1, RW-C2, RW-C3, RW-C4, RW-C6, RW-C7, RW-C9, RW-C10, OW-C1, OW-C2, OW-C7, OW-C8, OW-C12, OW-C14, MW-11, MW-13, MW-15 (September 2008) **Pier Area D** - RW-D2, MW-15, MW-55, MW-59, MW-63, MW-64, GW-02, GW-03, GW-04, GW-05, GW-06, GW-07, GW-08, GW-09, GW-10, GW-11, SB-04, SB-08, SB-A, OW-D1 (September 2008)	
Naval Station Norfolk	LP Fuel Farm	***Groundwater***			Post-operational monitoring requirements are not specified in the CAP.
		Free Product	0.01 ft	MW-49, MW-56 (September 2008)	
		Benzene	700 µg/l	**None (March 2008)**	
		Toluene	5,000 µg/l	**None (March 2008)**	
		Ethylbenzene	430 µg/l	**None (March 2008)**	
		Naphthalene	2,300 µg/l	**None (March 2008)**	
	SP Fuel Farm	***Groundwater***			After remedial endpoint is met for 6 months, system should be taken offline. Conduct monitoring for 1 year following deactivation. If remedial endpoint is exceeded during post-operation, system must be reactivated.
		Free Product	0.01 ft	MW09 (May 2008)	
	Building U117	***Groundwater***			After remedial endpoint is met for 6 months, an additional 6 months of free product measurements must be completed to ensure remedial endpoints are met. Following remediation, all monitoring wells must be abandoned.
		Free Product	0.01 ft	MW05 (September 2008)	
	SC-413/124	***Groundwater***			Post-operational requirements are not specified in the CAP.
		Free Product	0.01 ft	MW-05, MW-3A, MW-5A, MW-7A, RW-3 (September 2008)	
	Bousch Creek	***Groundwater***			Post-operational requirements are not specified in the CAP.
		Free Product	0.01 ft	BC-1, BC-2, BC-7, BC-10, BS-13, BC-16, BC-20, BS-29, BC-30, MW-5 (September 2008)	
	NH-94	***Groundwater***			After remedial endpoint is met for 6 months and collection of a final water sample for naphthalene analysis from the drop inlet (remedial endpoint of 62 µg/l), system should be taken offline.
		Free Product	0.01 ft	EP-1, EP-10, MW-3, MW-A (September 2008)	
	LP-209	***Groundwater***			After remedial endpoint is met for 6 months, conduct the following for 6 months: weekly inspections of NR Substation Vault and product recovery as discovered, if product observed then inspect Manholes 1, 2, and 3 and conduct product recovery monthly; quarterly inspections of monitoring wells and other utility receptors. Following remediation, the monitoring wells will be abandoned and the vault (including manholes) will be steam cleaned.
		Free Product	0.01 ft	MW-3 (September 2008)	
		NR Substation Vault	Visible Product		
		Manholes 1, 2, 3	0.01 ft		
	LP-45	***Groundwater***			No CAP has been completed for this site.
		Free Product	0.01 ft	MW-50 (July 2007)	
	NH-95	***Groundwater***			No CAP has been completed for this site.
		Free Product	0.01 ft		

Facility	POL Site	Remedial Endpoints		Monitoring Points Not Meeting Endpoints	Post-Operational Requirements
NAS Oceana	Fuel Farm	***Groundwater***			After free product remedial endpoint is met for 6 consecutive months and naphthalene endpoint is met for one year, the system should be taken offline. Conduct monthly monitoring of free product and quarterly monitoring of naphthalene for six months following deactivation. If remedial endpoint is exceeded during post-operation, system must be reactivated.
		Free Product	0.01ft	ET-05, ET-08, 203MW-11, 203MW-12, 203MW-13, 203MW-14, 203MW-15, 203MW-16, 203MW- 17, 203MW-18, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, TF-01, TF-02 (October 2008)	
		Naphthalene	5,000 µg/l	None (September 2007)	
	5th Street	***Groundwater***			After remedial endpoint is met for 6 consecutive months, system will be taken offline. Conduct quarterly monitoring for 4 quarters following deactivation. If remedial endpoint is exceeded during post-operation, system must be reactivated.
		Free Product	0.01 ft	MW-06, MW-17, MW-23, MW-24 (September 2008)	
	FITWING	***Groundwater***			After remedial endpoints are met for 6 consecutive months, system will be taken offline. Monitoring of soil, vapor, groundwater, and free product will continue consistent with operational schedule for 1 year. If remedial endpoint is exceeded during post-operation, system must be reactivated
		Free Product	0.01 ft	RW-05, RW-06, EMW-07 (September 2008)	
		TPH	10,000 µg/l	**None (July 2008)**	
		Soil			
		TPH	500 mg/kg		
		Vapor			
		TPH	100 µg/L		
NAS Oceana	EM Loop	***Groundwater***			After remedial endpoint is met, system will be taken offline. Monitoring of soil, groundwater, and free product will continue consistent with operational schedule for 1 year. If remedial endpoint is exceeded during post-operation, system must be reactivated. Following remediation activities, the LPH system will be decommisioned and all monitoring wells will be abandoned.
		Free Product	0.01 ft	RW01 (September 2008)	
		TPH	84,000 µg/l	**None (January 2008)**	
		Soil			
		TPH	3,870 mg/kg		
	MATWING	***Groundwater***			After free product remedial endpoint is met for 6 consecutive months, the skimmers should be taken offline. Conduct semi-annual monitoring of free product for 1 year following deactivation. If remedial endpoint is exceeded during post-operation, skimmers must be reactivated.
		Free Product	0.01 ft	PZ01, PZ02 (September 2008)	
	Day Tank	***Groundwater***			After free product remedial endpoint is met for 6 consecutive months, the skimmers should be taken offline. Conduct semi-annual monitoring of free product for 1 year following deactivation. If remedial endpoint is exceeded during post-operation, skimmers must be reactivated.
		Free Product	0.01 ft	RW01, MW14, DT04 (September 2008)	
	T-Line	***Groundwater***			After free product remedial endpoint is met for 6 consecutive months, system will be taken offline. Quarterly monitoring of groundwater for TPH and free product will continue for 1 year. If remedial endpoint is exceeded during post-operation, system must be reactivated.
		Free Product	0.01 ft	OBG-8, OBG-17, TL-2, TL-3, TL-4, TL-6, TL-7 (September 2008)	
	SWMU 2E	***Groundwater***			No CAP has been completed for this site.
		Free Product	0.01 ft	MW-1, MW-4, MW-8 (September 2008)	
	UST 3003A	***Groundwater***			No CAP has been completed for this site.
		Free Product	0.01 ft	MW-1, MW-4 (March 2008)	
		Benzene	1,000 µg/l		
		Toluene	3,000 µg/l		
		Ethylbenzene	1,400 µg/l		
		Total Xylenes	15,000 µg/l		
		Soil			
		TPH	100 mg/kg		
	Jet Test Cell	***Groundwater***			No CAP has been completed for this site.
		Free Product	0.01 ft	MW-B, MW-H (September 2008)	
	F8/F9	***Groundwater***			No CAP has been completed for this site.
		Free Product	0.01 ft	MW7, MWA, MWB (September 2008)	
	*Tank MT-3	***Groundwater***			Post-operational requirements are not specified in the CAP.
		Benzene	1 µg/l	MT-3/2, MT-3/6 (June 2008)	
		Lead	0.015 µg/l	NA (June 2008)	
		Silver	0.018 µg/l	NA (June 2008)	
	NEX Gas Station	***Groundwater***			After remedial endpoint for free product is met for 6 consecutive months, system will be taken offline. Conduct quarterly monitoring for 1 year following deactivation. If remedial endpoints are exceeded at any time during post-operation, system must be reactivated.
		Free Product	0.01 ft	MW03, MW06 (September 2008)	
		Benzene	29,000 µg/l	None (November 2007)	
		Toluene	36,000 µg/l	None (November 2007)	
		Ethylbenzene	2,500 µg/l	None (November 2007)	
		Total Xylenes	15,000 µg/l	None (November 2007)	
		Lead	300 µg/l	None (November 2007)	

* - Located in North Carolina, no current information available

Bold indicates limited monitoring wells sampled during this period due to free product present in well

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\LittleCreek\Figure 3-1_Active POL Sites.mxd

Legend
- Active POL Sites
- Recently Closed POL Site (August 2008)
- Facility Boundary

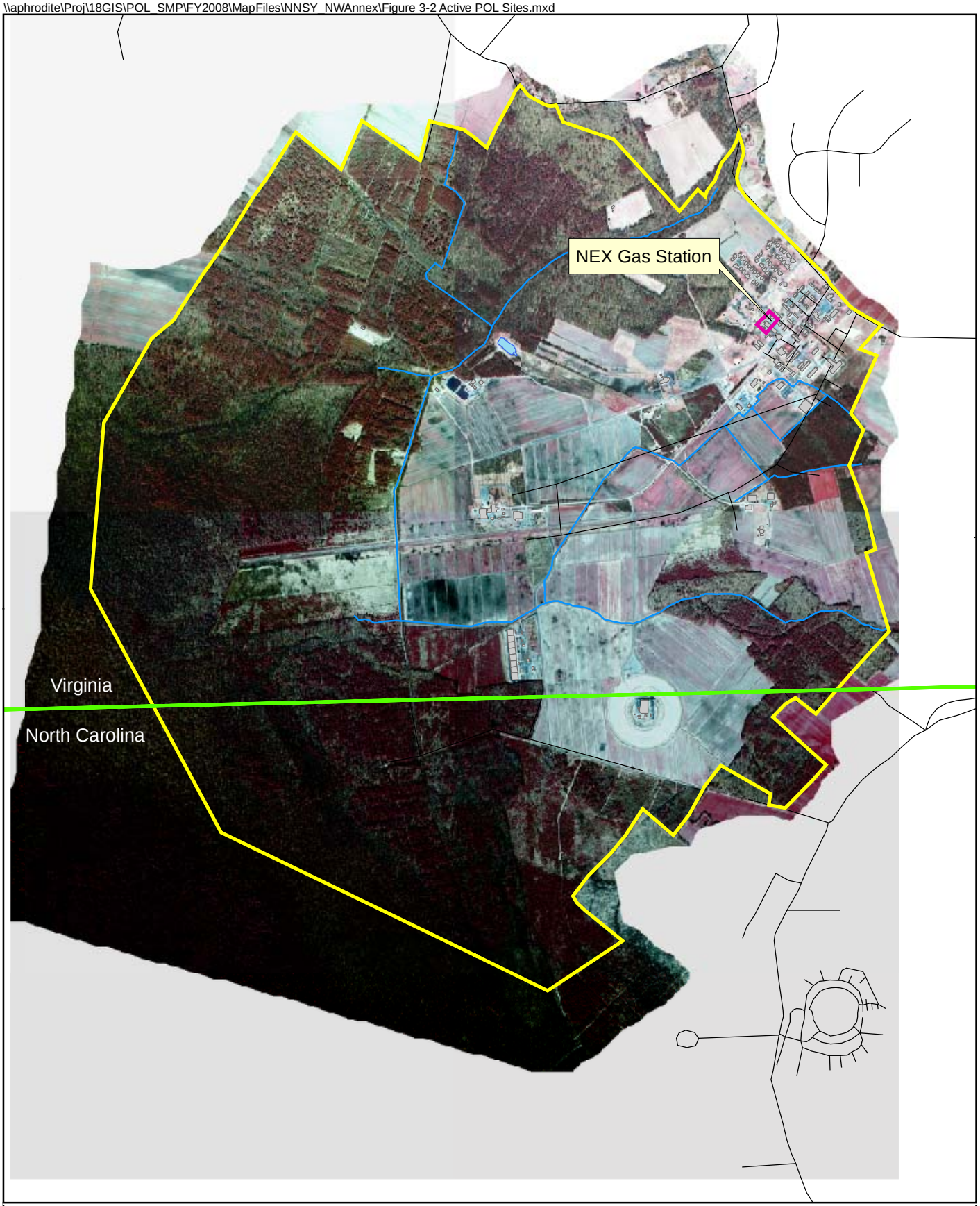
N
W E
S

0 1,250 2,500
Feet

Figure 3-1
Active POL Sites
NAB Little Creek
Virginia Beach, VA

CH2MHILL

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\NNSY_NWAnnex\Figure 3-2 Active POL Sites.mxd



Legend
- Active POL Site
- Facility Boundary
- Virginia/North Carolina Boundary

N
W E
S

0 1,200 2,400
Feet

Figure 3-2
Active POL Site
NSA Norfolk, NW Annex
Chesapeake, Virginia

CH2MHILL

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\StJuliensCreek\Figure 3-3 Active POL Sites.mxd

Legend
- Active POL Site
- Activity boundary

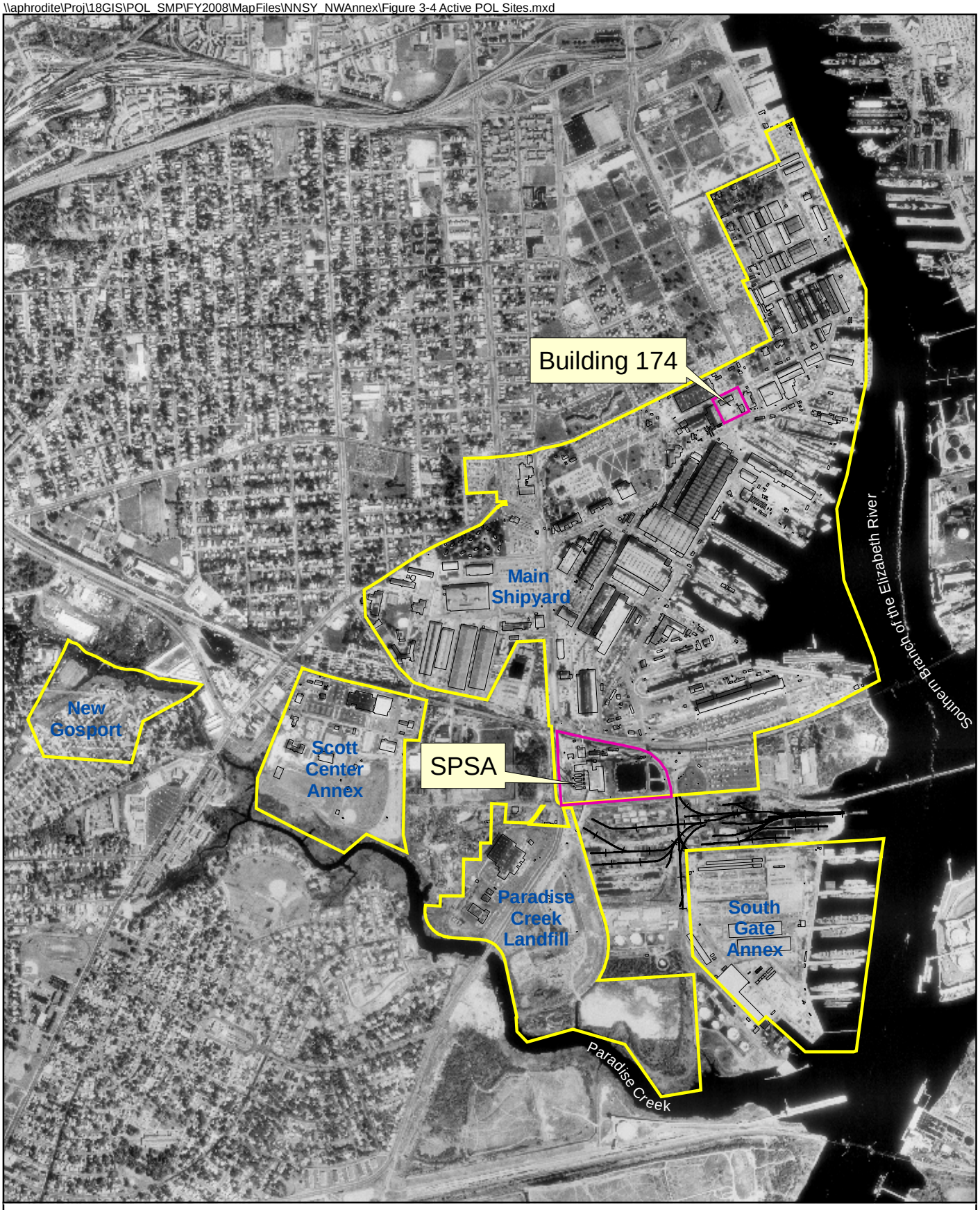
N
W E
S

0 500 1,000
Feet

Figure 3-3
Active POL Site
St. Juliens Creek Annex
Chesapeake, Virginia

CH2MHILL

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\NNSY_NWAnnex\Figure 3-4 Active POL Sites.mxd



Legend
- Active POL Sites
- Facility Boundaries

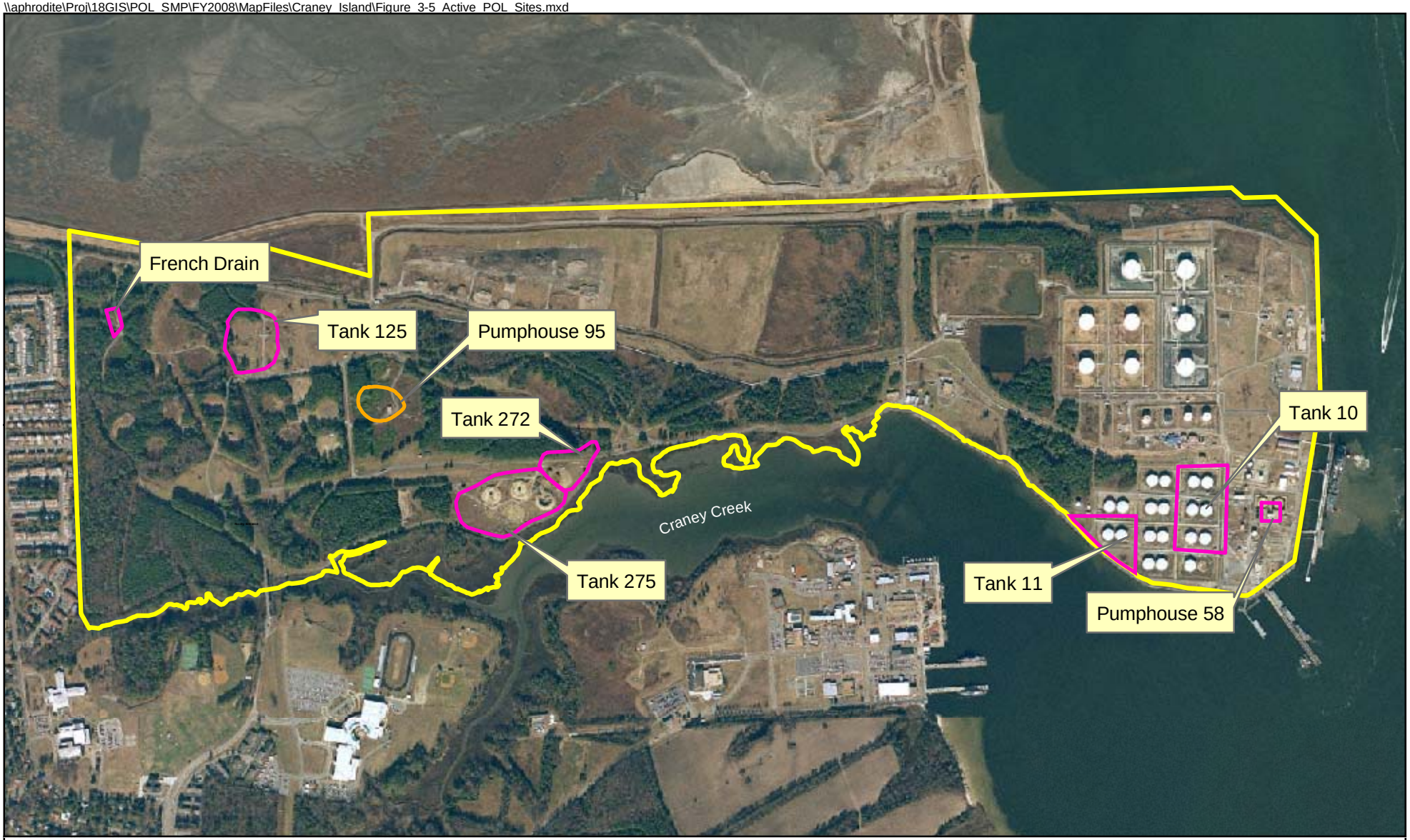
N
W E
S

0 750 1,500
Feet

Figure 3-4
Active POL Sites
Norfolk Naval Shipyard
Portsmouth, Virginia

CH2MHILL

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\Craney_Island\Figure_3-5_Active_POL_Sites.mxd



Legend

- Active POL Sites
- Recently Closed POL Site (August 2008)
- Facility Boundary

N
W E
S

0 1,350 2,700
Feet

Figure 3-5
Active POL Sites
Craney Island
Portsmouth, Virginia

CH2MHILL

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\NSN\Figure 3-6 Active POL Sites.mxd

Legend
- Active POL Sites
- Activity Boundary

N
W E
S

0 1,500 3,000
Feet

Figure 3-6
Active POL Sites
Naval Station Norfolk
Norfolk, Virginia

CH2MHILL

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\Oceana\Figure_3-7_Active_POL_Sites.mxd

Legend
- Facility Boundary
- Active POL Sites

N
W E
S

0 1,750 3,500
Feet

Figure 3-7
Active POL Sites
NAS Oceana
Virginia Beach, Virginia

CH2MHILL

SECTION 4

Sites

4.1 Auto Hobby Shop, PC# 91-1749

The Auto Hobby Shop (Building 3530) site is located in the southeastern portion of NAB Little Creek (**Figure 3-1**) next to the commissary. Building 3530 was constructed in 1954 as a heavy duty maintenance shop. At that time, all oil changes for Public Works Department vehicles took place at Building 3530. A 550-gallon UST (Tank 3530-8) was placed on the western side of the building. This tank was used for collection of waste oil, and oil from the tank was later used for dust control on roads or discarded in the Base Landfill [Installation Restoration (IR) Site 7]. Generation rates averaged about 1,200 gallons of oil and 55 gallons of spent solvents per year between 1954 and 1974 (RGH, 1984).

In May 1991, Tank 3530-8 was abandoned in place due to its proximity to Building 3530.Its contents, primarily used motor oil, were removed prior to abandonment. Soil sampling conducted during tank closure activities indicated that a release of petroleum hydrocarbons had occurred. Until 2004, Building 3530 was used for maintenance and repair of automobiles by eligible military personnel. Currently, it is used as office space by a variety of entities including event scheduling, tours, and ticketing personnel. A site map, including the location of the tank, existing monitoring wells, and the product recovery system is presented as **Figure 4-1**. Depth to shallow groundwater ranges from 6 to 9 feet (ft) below ground surface (bgs) and flows to the east.

SCR (Applied Environmental, 1992)

The initial SCR for the Auto Hobby Shop was completed in 1992 and included the installation and sampling of groundwater monitoring wells. Results of the field investigation indicated the presence of free product and absorbed-phase hydrocarbons (APHs) in groundwater however the extent of the free product plume was not defined.

SCR (ES&E, 1995d)

An additional site assessment was conducted in 1995 and included the installation and sampling of soil borings and groundwater monitoring wells. The data collected indicated soil and groundwater under Tank 3530-8 were impacted by petroleum products. Free product was present in groundwater monitoring wells in the immediate vicinity of the abandoned UST. BTEX and TPH were also detected at low concentrations in groundwater, most likely due to the low solubility of waste oil compounds. The risk assessment concluded that the only potential exposure pathway to human receptors is a worker exposure scenario and that risks were minimal due to the low concentrations and limited extent of contamination. The remediation assessment recommended removal of free product to the state recommended level of 0.01 ft and removal of TPH contaminated soil.

CAP (ES&E, 1996)

The CAP recommended a remediation process involving a series of recovery well points using hydrocarbon skimmers and monthly free product monitoring from all wells until the remedial endpoint (0.01 ft) was met for six consecutive months. The CAP did not recommend removal of contaminated soils due to the potential of undermining the structural integrity of Building 3530.

A skimmer system was installed in 1998 and consisted of three recovery wells with belt skimmers. Recovered product was transferred from the belt skimmer temporary storage tanks located at each well to a 55 gallon drum located inside a storage shed.

Site Investigation Report (Sovereign, 2005b)

A Site Investigation (SI) was conducted in order to determine the extent of residual hydrocarbons remaining at the Auto Hobby Shop and evaluate final closure options. The field activities included waste oil collection for petroleum finger print analysis, soil sampling and TPH analysis, and weekly groundwater sampling for free product.

The investigation determined that the core impact area of residual hydrocarbons was approximately 25 ft by 30 ft adjacent to the Tank 3530-8 location. Subsurface hydrocarbons were confined to a range between 7.5 and 11 ft bgs. No evidence of a dissolved phase plume was discovered, and a risk analysis indicated no unacceptable risk to human health or the environment from the remaining hydrocarbons. The SI Report recommended cessation of operation of the free product recovery system because it was no longer effective in removing phase separated hydrocarbons. Consequently, the closure options presented included the following:

- **Option 1:** Petition VDEQ to cease operation of the skimmer system and close the site without meeting the 0.01 ft of free-product guideline. If VDEQ required full compliance with the guidelines then all wells (monitoring and recovery) must be abandoned with the exception of MW01, ESE01 and ESE08. Periodically, any of the free product that accumulated in these monitoring wells could be removed through manual bailing until a free product thickness level of <0.01 ft is achieved for a period of six consecutive months. Once remedial endpoints are met and sit closure is approved by the VDEQ, the remaining wells will be abandoned accordingly.
- **Option 2:** Conduct a focused "hot spot" excavation of the core impact area, to include Tank 3530-8 and a thin layer of residual hydrocarbons immediately surrounding the UST. The excavation limits would be predetermined by the boundaries established by the SI and agreed to in advance by all parties. Once the excavation is completed and remedial endpoints were achieved for six consecutive months, all remaining monitoring wells and recovery wells would be abandoned following site closure by VDEQ.

UST Hot Spot Removal Action (EnVetCo, 2008)

As proposed in the SI Report (Sovereign, 2005b), UST removal and hot spot excavation activities were conducted during the third quarter 2007. Activities included the removal of Tank 3530-8, 126 tons of potentially contaminated soil, and 96 gallons of oily water. In addition, due to their location in the excavation area, monitoring wells MW-01, ESE-01, and

ESE-08 and recovery wells RW-01, RW-02, and RW-03 were abandoned and replaced with monitoring wells MW-07 and MW-08, following excavation activities.

Current Status

Prior to well abandonment and UST removal activities, product recovery was conducted primarily through a skimmer system and hand bailing. To date, a total of 248.99 gallons of product has been recovered during skimmer system operations. Free product was not detected in any of the monitoring wells prior to the UST removal activities since July 2007. In 2008, no free product was detected in the new monitoring well network, and site closure was approved by the VDEQ August 21, 2008

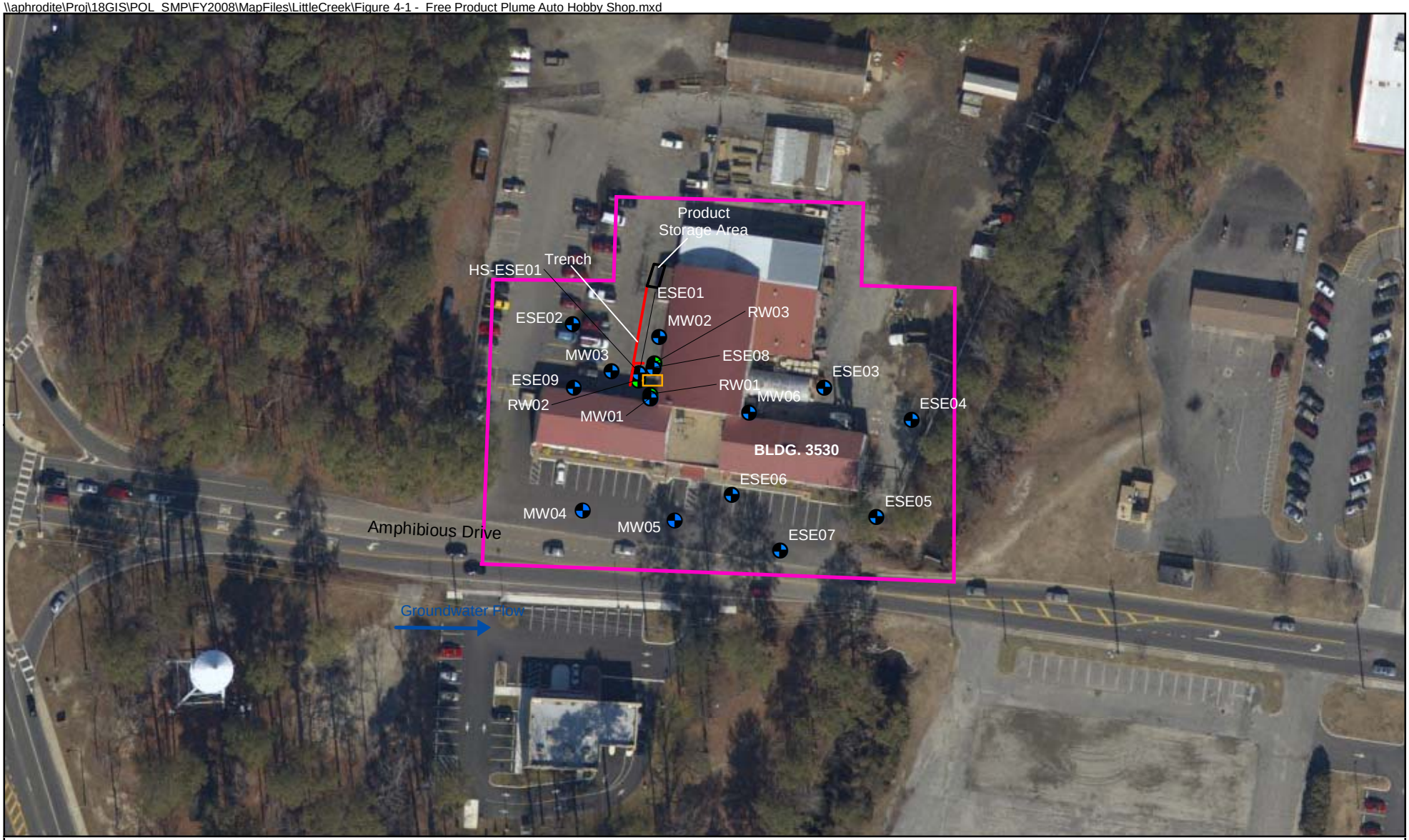
Proposed Activities for FY 2008

Conduct quarterly monitoring for 1 year following site closure. If remedial endpoints are exceeded at any time during post-operation, product recovery must be initiated. After 1 year without an exceedance of remedial endpoints, all monitoring wells will be abandoned.

Optimizations/Recommendations

The site is now closed; NFA is recommended at this time.

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\LittleCreek\Figure 4-1 - Free Product Plume Auto Hobby Shop.mxd



Legend

- Monitoring Well
- Recovery Well
- Site Boundary

N
W E
S

0 50 100
Feet

Figure 4-1
Auto Hobby Shop
NAB Little Creek
Virginia Beach, VA

No Free Product Detected (March 2008)

CH2MHILL

4.2 Piers 11-19, PC# 89-0706

Piers 11 - 19 at NAB Little Creek are located along the west side of the Little Creek Channel (**Figure 3-1**). The pier area is approximately 2,000 ft long by 250 ft wide and is adjacent to a paved parking area (**Figure 4-2**). In 1967, petroleum releases were discovered in diesel fuel marine dispensing and receiving lines associated with a 576,000-gallon UST (Tank 1551). As the leaks were discovered, the piping was repaired and returned to service. By 1970, the dispensing line from Pier 19 to Tank 1551 and the ship receiving lines from Piers 11 and 19 to Tank 1551 were replaced. A site map, including existing monitoring wells and the groundwater treatment building is presented as **Figure 4-2**. Depth to shallow groundwater ranges from 6 ft to 8 ft bgs and flows to the east toward the channel.

SIs (R.E. Wright Environmental, Inc., 1982)

Following the discovery of free-product at the piers area, SIs were conducted in 1982 and 1987. The investigations confirmed an immiscible petroleum hydrocarbon layer floating on the groundwater table. Consequently, product recovery wells were installed and a pump and treat system began operation in 1987. Although the system operated for nearly 3 years, it did not recover significant quantities of product. As a result, several monitoring wells were installed and two separate hydrocarbon plumes were identified. One product plume (south plume) was detected in the vicinity of Piers 12-14. The other product plume (north plume) was detected in the vicinity of Piers 16-18. Within these plumes, free product ranged in thickness between 0.03 ft and 8 ft.

Consent Order Agreement (NAVFAC, 1989)

On June 22, 1989, the Navy entered into a Consent Order Agreement with the VDEQ which established a schedule for submitting a CAP and conducting remedial activities at the pier area. In accordance with this agreement, the Navy submitted a CAP on March 23, 1990. This CAP was not approved by the VDEQ, and subsequent site characterization investigations were conducted.

Supplemental SCR (O'Brien and Gere, 1993b)

Site characterization activities included monitoring well installation, pump testing, permeability testing, and soil and groundwater sampling and analysis at the pier area. Analytical results indicated the presence of low concentrations of volatile organic compounds (VOCs) in the groundwater and semivolatile organic compounds (SVOCs) in the soil. In addition, a dissolved phase TPH plume, geographically consistent with the free phase plume, was identified in groundwater. A risk assessment identified no unacceptable risks to human health and the environment resulting from contaminants at the site. The remediation assessment determined that only free product recovery was necessary to remediate the site and enable groundwater discharging to Little Creek Channel to meet ambient water quality criteria.

CAP (O'Brien and Gere, 1993a)

The CAP recommended that an interceptor trench system would be the most appropriate and effective means to remove free product from the two plume areas. A free product recovery system consisting of five interceptor trenches and a groundwater pumping system was

constructed and operational by November 1995. The corrective action included quarterly monitoring of free product (0.01 ft); quarterly groundwater sampling for benzene (710 micrograms per liter [µg/L]), toluene (200,000 µg/L), ethylbenzene (29,000 µg/L), and naphthalene (2,350 µg/L) analysis; and annual soil sampling for TPH [21,000 milligrams per kilogram (mg/kg)].analysis until the remedial endpoints (provided in parentheses) were met and for six consecutive months. In addition, one final round of groundwater and soil sampling was required after the free-product thickness remedial endpoint of 0.01 ft is achieved.

CAP Amendment (NAVFAC, 2001)

Due to lack of significant amounts of free product recovered, the VDEQ granted the Navy permission to cease operation of the trenches in October 1998 (south plume) and June 1999 (north plume).

A CAP General Permit Modification was approved by VDEQ to abandon MW-1, MW-2, MW-4, MW-12, MW13, MW17, PZ-4, PZ-6, PZ-7, PZ-8, and PZ-10 due to at least four consecutive quarters of less than 0.01 ft observed in each of the listed monitoring wells and eliminated soil monitoring requirements. Groundwater monitoring was reduced to annual sampling and analysis at select wells (MW09, MW10, MW11, MW14, and MW19) since remedial endpoints identified in the CAP had not been exceeded since June 1995. As a result, a CAP Amendment was submitted to reflect these revisions and the preferred remediation alternative, manual bailing, and solar skimmer pumping was implemented.

Current Status

In 2004, the Navy supplemented the skimmer system with the use of Aggressive Fluid/Vapor Recovery (AFVR). As of March 2008, 19,350.29 gallons of free product have been recovered from the skimmers and AFVR. Product thickness in the south plume ranged from no measurable product to 0.60 ft while product thickness in the north plume ranged from no measurable product to 0.46 ft. As of March 2008, monitoring wells with product thicknesses greater than or equal to the remedial endpoint of 0.01 ft includes MW 05 in the south plume and MW07, MW16, and MW 18 in the north plume (**Figure 4-2**). Monthly product recovery and monitoring and quarterly and annual reporting will be conducted until the remedial endpoint is met for six consecutive months. At this time, monitoring for dissolved phase constituents is not taking place.

Proposed Activities for FY 2008

Monthly free product monitoring and recovery and quarterly and annual reporting will continue in FY 2008.

Optimizations/Recommendations

The Piers 11-19 site is characterized by relatively permeable medium to coarse silty sand, with an average hydraulic conductivity value of 6.63×10^{-2} cm/s, and shallow depth to water (7 to 8 ft bgs). LNAPL is considered residual in nature and additional recovery via skimming or AFVR is expected to be minimal. Spot excavation of residual impacts, particularly in the region of MW-05, MW-16, and MW-18 would be effective, but complicated by the high permeability sands and proximity to surface water (shoring would likely be required). Higher permeability favors biosparging or nitrate flushing in target areas. The estimated cost of nitrate flushing for 1 year is between $40,000 and $60,000.

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\LittleCreek\Figure 4-2 Free Product Plume Piers 11-19.mxd 11/25/08

Legend

- Monitoring Well
- Piezometer
- Site Boundary
- Free Product Plume (March 2008)

N
W E
S

0 250 500
Feet

Figure 4-2
Piers 11-19
NAB Little Creek
Virginia Beach, Virginia

CH2MHILL

4.3 Naval Exchange Gas Station, PC# 89-1488

The Navy Exchange (NEX) Gas Station is located on Naval Support Activity Norfolk, Northwest Annex along Northwest Boulevard within a predominantly rural area, bordered by residential development (**Figure 3-2**). A trailer park is located north and west of the site, and a several NW Annex buildings (NEX store, fire department, residential and recreational structures) are located south and east of the site. One drinking water well is located approximately 300 ft west and four drinking water wells are located approximately 600 to 1,000 ft southwest of the NEX Gas Station. The site previously contained seven USTs, three of which were removed in the 1980s. The four remaining USTs, consisting of a tank of unknown size south of the gas station building, one 6,000 gallon, one 10,000 gallon, and one 12,000 gallon UST southwest of the site were removed from the ground during the first quarter 2007. On March 18, 1989, a facility safety officer observed free product surfacing from cracks in the concrete. As a result, a pollution complaint report was filed with the VDEQ. A site map, including the location of the current and former USTs, existing monitoring wells, and the product recovery system is presented as **Figure 4-3**. Depth to shallow groundwater ranges from 3 to 7 ft bgs and generally flows to the southwest.

CAP (O'Brien and Gere, 1990a)

In April 1989, following the initial observation of the free product at the site, three monitoring wells and one recovery well were installed in the vicinity of the four remaining USTs; 52 gallons of free product were recovered. Following this investigation, a CAP was completed but not submitted for approval. The CAP recommended additional monitoring well installation and soil and groundwater sampling which was conducted in 1990. The results indicated of the presence of TPH in soil and groundwater.

SCR (ES&E, 1993b)

Site assessment activities included monitoring well installation, pump testing, slug testing, permeability testing, and soil and groundwater sampling and analysis. Moderate concentrations of TPH and high concentrations of BTEX were detected in soils adjacent to the water table. BTEX constituents were detected in groundwater at concentrations above federal maximum contaminant levels (MCLs) for drinking water. A risk assessment identified potential unacceptable risk to human receptors due to inhalation of gasoline vapors containing BTEX compounds. Groundwater modeling completed as part of the risk assessment concluded that the contaminants were not likely to reach the existing drinking water wells within a 30-year period. However, the SCR recommended cleanup of BTEX contaminants to within MCLs to ensure a safe drinking water supply.

CAP Addendum (ES&E, 1995a)

In accordance with the recommendations of the SCR, a CAP Addendum was completed to address the petroleum-impacted soil, dissolved phase hydrocarbons, and BTEX constituents in groundwater. Prior to completion of the CAP Addendum, a vapor extraction (VE) pilot test was conducted at the site to evaluate the applicability of this treatment approach. Based on the results of the pilot study, VE was determined to be a viable treatment approach for the site. The design of the treatment system presented in the CAP Addendum included well installation for the purpose of VE and a pump and treat system including an air/liquid

separator, an oil/water separator (OWS), an air stripper, and a carbon filtration system. The corrective action included monthly monitoring of free product (0.01 ft) and quarterly groundwater sampling for benzene (5 µg/L), toluene (2,000 µg/L), ethylbenzene (700 µg/L), and total xylenes (10,000 µg/L) until the remedial endpoints (provided in parentheses) were met and for six consecutive months.

UST Hot Spot Removal Action (EnVetCo, 2007)

During installation of a new recovery well in 2005, an abandoned UST was discovered. As proposed in the SI Report (Sovereign, 2005b), the site USTs and contaminated soil were excavated during the fourth quarter 2006. Activities included the removal of the 6,000 gallon, 12,000 gallon, and 10,000 gallon USTs, 267 tons of potentially contaminated soil, and approximately 138 tons construction debris. Additionally, due to their location in the excavation area, two monitoring wells (MW-01 and MW-011) and four recovery wells (RW-K, RW-L, RW-M, and RW-N) were abandoned and replaced by two monitoring wells MW-15 and MW-16, following excavation activities.

Current Status

Currently, monthly free product monitoring, quarterly sampling and reporting, and annual reporting is conducted. As of March 2008, the treatment system had recovered 1,283 gallons of product. Free product was not detected in any site wells during the first quarter 2008 (**Figure 4-3**). However, concentrations of BTEX remain in exceedance of MCLs in several wells (MW15, MW16, and RWI). Monthly product recovery and monitoring (if needed) and quarterly and annual reporting will be conducted until remedial endpoints are met for 6 consecutive months.

Proposed Activities for FY 2008

Monthly free product monitoring and recovery, quarterly groundwater analytical monitoring, and quarterly and annual reporting will continue in FY 2008.

Optimizations/Recommendations

The NEX Gas Station site is characterized by fine sand with some silt, with an average hydraulic conductivity value of 1.27×10^{-3} cm/s, and average depth to water of 3 to 7 ft bgs. Retrofitting the existing VE system (which was deactivated in January, 2004 because of low mass/vapor recovery and water table fluctuations) to perform biosparging or vacuum enhanced groundwater recovery should be considered. In either case, new wells would need to be installed, although existing conveyance piping could likely be re-used. The estimated capital cost of retrofitting the existing system is between $75,000 and $100,000.

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\NNSY_NWAnnex\Figure 4-3 Free Product March 2008 NEX Gas Station.mxd 11/25/08

Legend

- Monitoring Well
- Recovery Well
- Site Boundary

No Free Product Detected (March 2008)

N
W E
S

0 40 80
Feet

Figure 4-3
NEX Gas Station
NSA Norfolk, NW Annex
Chesapeake, Virginia

CH2MHILL

4.4 Building 271, PC# 97-2310

Building 271 is located in the southeastern portion of SJCA, adjacent to St. Juliens Creek (**Figure 3-3**). The building currently serves as the fire station for SJCA. A 500-gallon AST containing No. 2 fuel oil for the building's furnace is located south of the building. The AST is located in a cinder block secondary containment unit and associated piping is below grade. According to fire station personnel, an abandoned UST may be present below the AST. Investigation of the site was initiated after occupants of Building 271 reported a petroleum odor in the fire inspector's office on the southwest side of the building. A site map, including the location of the AST and existing monitoring wells, is presented as **Figure 4-4**. Depth to the shallow groundwater ranges from 5 to 6 ft bgs and flows to the south toward St. Juliens Creek.

Initial Abatement Measures Report (SCS Engineers, 1997a)

A Site Check Investigation was conducted as part of initial abatement actions to address the reported petroleum odor. Monitoring well installation and soil and groundwater sampling for TPH, BTEX, and naphthalene analysis were conducted to investigate the potential presence of subsurface petroleum hydrocarbons. TPH, BTEX, and naphthalene constituents were detected in both soil and groundwater at moderate to low concentrations. No free product was detected. After caulking of the fire inspector's window, air monitoring was conducted in the office. No organic vapors or combustible gases were detected.

SCR (SCS Engineers, 1997b)

Site assessments were performed in March and August 1997 to support completion of an SCR. During the March investigation, 1 ft of free product was detected in monitoring well MW-03 and a solar-powered product skimmer was installed in the well. During the August investigation, TPH was detected in one soil boring and one monitoring well (MW-01). The risk assessment determined that the risk to potential receptors was low based on the lack of significant exposure pathways. The SCR recommended additional free product removal with the skimmer already in use, excavation of test pits during the installation of a new AST in order to confirm the presence or absence of an abandoned UST, removal of the UST if found, and removal and offsite treatment of contaminated soil.

Current Status

Recently, product recovery has been conducted primarily through the use of AFVR and manual bailing. Product recovery via the skimmer system was discontinued in March 2004. Monthly free product recovery and monitoring and quarterly and annual reporting is conducted. As of the first quarter of 2008, free product was measured in two wells (MW-1 and MW-3) at a maximum thickness of 0.40 ft (Figure 7-1). Between January 2007 and March 2008, a total of 4.5 gallons of free product have been recovered through AFVR events and manual bailing activities. Monthly free product recovery and monitoring and quarterly and annual reporting will continue until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months.

Proposed Activities for FY 2008

Monthly free product monitoring and recovery and quarterly and annual reporting will continue in FY 2008.

Optimizations/Recommendations

The Building 271 site is characterized by sandy silt, with an average hydraulic conductivity value of 8.50×10^{-4} cm/s, and average depth to water of 5 to 6 feet bgs. Based on recovery rates and thickness of free product, the LNAPL at the site is considered residual in nature and additional recovery via skimming or AFVR is expected to be minimal. Presence or absence of a possible UST at the site, beneath the existing AST, should be confirmed. Because the impacted area is localized (less than 50 ft^2) and shallow (based on available data), focused excavation of residual impacts should be considered. Direct push injections of chemical oxidation/oxygen releasing agents is another option, although less likely to achieve timely closure. The estimated cost of excavation is between $120,000 and $150,000.

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\StJuliensCreek\Figure 4-4 Free Product March 2008 Bldg 271.mxd 11/25/08

Legend
- Monitoring Well
- Former Tank
- Free Product Plume (March 2008)
- Site Boundary
- Facility Boundary

N
W E
S

0 35 70
Feet

Figure 4-4
Building 271
St. Juliens Creek Annex
Chesapeake, Virginia

CH2MHILL

4.5 Building 174, PC# 03-5062

Building 174 is located in the northern portion of Norfolk Naval Shipyard (**Figure 3-4**). Building 174 and Tank 402, a 2-million gallon UST, were part of an electrical power and steam generation facility that supplied the shipyard with heat and power. Tank 402 is constructed of 18-inch thick reinforced concrete, 6.3 ft of the tank is above the ground surface and 5.7 ft of the tank is bgs. The tank was installed in the 1920s and was originally used for water storage. In the 1960s the tank was converted to No. 6 fuel oil (Bunker C) storage. Records indicate the tank was drained of existing product and removed from service in the late 1980s and was reportedly cleaned in 1998. Base utility diagrams show fuel oil supply and feed lines extending from the southwest corner of the tank to the former location of a system pump house. Additional fuel oil lines are shown south of Building 174 running from a utility trench toward the piers along the Elizabeth River. It is not clear whether any of these fuel lines were properly abandoned in place or the termination points of these lines.

Building 174 currently operates as the control center for the Main bases power supply. The top of Tank 402 serves as a raised parking lot accessed by a concrete ramp on the northeast corner. A site map, including the location of the former tank and existing monitoring wells, is presented as **Figure 4-5**. Depth to shallow groundwater ranges from 4 to 8 ft bgs and generally flows south-southwest across the site.

SI (IT Corporation, 1987)

An SI revealed visible, free-phase hydrocarbon contamination around the perimeter of Tank 402. Monitoring well installation and soil and groundwater sampling were conducted. Free product was detected in five of the soil borings during well installation; four monitoring wells contained free product at thicknesses up to 2.2 ft.

SCR (Foster Wheeler Enterprise, Inc., 1993)

The initial site assessment included the installation of new monitoring wells and the sampling of all monitoring wells and site soils for BTEX, MTBE, and TPH analysis. Based on the analytical results, the risk assessment concluded that there was no immediate risk to human health and the environment. Free product thicknesses ranged from 1 to 3 ft. The remediation assessment recommended a monitoring program consisting of periodic well inspections and bail down tests be implemented.

Initial Abatement Report (Baker, 2003a)

In March 2002, petroleum was observed in an electrical manhole (543) located in Building 174. Tank 402 was identified as the suspected source of the release. Approximately 14,642 gallons of oily water was pumped from the manhole between April and October 2002. It was estimated that 1,460 gallons of the recovered oily water was petroleum product. In February 2003, a site inspection was performed to assess conditions at Building 174. Product was observed in the utility vault beneath manhole 543, and approximately 20 ft of free product was detected in monitoring well MW02.

SCR (NAVFAC, 2003d)

A second SCR was completed to provide a site-specific assessment of conditions at Building 174 following the identification of oil in manhole 543. The SCR included a review of previous investigations; a detailed SI, including monitoring well installation followed by groundwater and soil sampling; a risk assessment; and recommended actions. The results indicated that fuel oil contamination was limited to the immediate area around Tank 402 (within 6 to 8 ft of its boundary) and the regions west of the tank toward Building 174. Fuel oil likely leaked from Tank 402 along its bottom and at wall seams. Fuel oil was visually identified seeping back into the tank along the walls and floor. Fuel contamination is likely pooled beneath the tank bottom and at the wall and groundwater interface and migrated toward Building 174 along utility conduits or underground piping.

The SCR identified low potential risk to human health and little to no potential risk to the environment from the releases at the site. The SCR recommended the removal of the existing contamination in the utility vault to the extent practicable, notification to site workers and visitors regarding potential exposure to contamination, a venting system for Tank 402 to ensure vapor dispersion, securing all access hatches, and continued monitoring for free product, free product recovery, and visual inspections of Tank 402 and the underground utilities.

CAP (NAVFAC, 2004c)

The remedial approach identified in the 2004 CAP includes securing and adequately ventilating Tank 402, conducting semi-annual visible site checks of manhole 543 and conducting annual site checks of Tank 402 for presence of product, and monthly free product recovery by AFVR and reporting at three monitoring wells until the remedial endpoint (0.01 ft free product) is met.

Current Status

Tank 402 has been secured and AFVR was implemented in May 2004. Monthly free product monitoring and recovery and quarterly and annual reporting is conducted. As of the first quarter of 2008, free product was measured in one monitoring well (MW-02) at a thickness of 0.05 ft in March 2008 (**Figure 4-5**). Between January 2007 and March 2008, a total of 3.8 gallons of free product has been recovered through AFVR events and manual bailing activities. Annual visible site checks of Tank 402 for the presence of product, monthly free product recovery by AFVR at three monitoring wells, and quarterly reporting will continue until remedial endpoints for free product (0.01 ft) is met for 6 consecutive months.

Proposed Activities for FY 2008

In FY 2008, the Navy plans to continue annual visible site checks for the presence of product, monthly free product monitoring and recovery, and quarterly and annual reporting.

Optimizations/Recommendations

The Building 174 site is characterized by silt and sandy silt of unknown hydraulic conductivity (based on soil descriptions, hydraulic conductivity is inferred to be in low 10^{-4} cm/s range). According to the SCR, the monitoring wells purge to completely dry quickly, and are slow to recover. The average depth to water is 4 to 8 ft bgs. LNAPL at the site (No. 6 fuel oil) is considered primarily residual; however, in some cases, seeps into the floor of Tank 402 have

been noted. Because of the unique logistical issues at the site, combined with the relatively low permeability subsurface and high viscosity product, options are limited. In the near term, AFVR events should continue to determine if the present trend of decreasing product thickness in MW-02 (the only well presently containing free product) can be maintained.

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\NNSY_NWAnnex\Figure 4-5 Free Product March 2008 Building 174.mxd 11/25/08

Legend

- Monitoring Well
- Tank 402 Boundary
- Free Product Plume (March 2008)
- Site Boundary

N
W E
S

0 40 80
Feet

Figure 4-5
Building 174
Norfolk Naval Shipyard
Portsmouth, Virginia

CH2MHILL

4.6 Southeastern Public Service Authority

The Refuse Derived Fuel Power Plant is a Southeastern Public Service Authority (SPSA) operated, Navy owned, steam generation plant located in the southern portion of Norfolk Naval Shipyard (**Figure 3-4**). The facility supplies steam and electrical power to NNSY through the combustion of refuse, coal, and other materials. The site consists of several buildings, towers, silos, coal storage areas, unloading areas, and roads. In the winter of 1989, diesel fuel oil was detected in a catch basin located near the southwest corner of the Diesel Generator Building. The soil was excavated and associated underground oil supply line was abandoned in place and replaced with an above ground line. A site map, including the location of the existing monitoring wells, is presented as **Figure 4-6**. Depth to shallow groundwater ranges from 4 to 7 ft bgs and flows east toward the Southern Branch of the Elizabeth River.

SCR (IMS, 1991b)

Monitoring well installation followed by groundwater and soil sampling was conducted as part of the SCR to evaluate the presence and extent of petroleum hydrocarbons. Following this investigation, recovery well RW-1 and a skimmer pump were installed in order to remove free phase hydrocarbons from the subsurface. The skimmer system operated until April 26, 1991 and recovered an estimated total of 464 gallons of free product. The SCR recommended several options for remediation including free-product skimming, pump and treat, and/or total fluid removal.

CAP (IMS, 1991a)

The subsequent CAP recommended the implementation of a product-only skimming system in conjunction with a VE system followed by a pump and treat system.

SCR (IMS, 1993a)

In September 1992, an additional diesel fuel leak was discovered seeping around two pipe conduits in Building 1519. The underground lines were abandoned in place and above ground lines were installed. An additional site assessment investigation was conducted, including monitoring well installation and groundwater sampling. Based on the lack of free product in the area and the relatively minor concentrations of dissolved phase contamination, the SCR concluded that NFA was warranted.

SCR (IMS, 1993b)

In February 1993, a third diesel fuel leak was discovered seeping through the concrete of an underground tunnel located between the above ground Fuel Oil Tanks and the Oil Unloading Area. Since all underground pipelines had been replaced with aboveground lines, initial abatement measures were taken to identify the source of the leak and mitigate any immediate hazards. Further investigation revealed an oil spill of unknown quantity had occurred in 1989 that was not remediated. It is suspected the release migrated across the site following the paths of underground utilities. In order to address the contamination at the site, a third site assessment investigation was conducted, including groundwater sampling. The SCR recommended installation of a free product recovery system.

In October 1993, a new free phase hydrocarbon skimmer system was installed and activated in recovery well RW-1. In addition, manual bailing of the impacted monitoring wells was conducted on a weekly basis. As of July 1994, approximately 1,732 gallons of free product had been recovered.

CAP (IMS, 1994c)

The subsequent CAP recommended bioventing at MW-12, installation of skimmer pumps in three additional monitoring wells, and continuation of the skimmer system and bailing until free product thickness was reduced to 0.01 ft. Addtionally, the CAP recommended a quarterly groundwater and annual soil sampling program to evaluate risk to human and ecological receptors.

In 1994, during a site visit with the VDEQ to review the conditions of the CAP, it was decided product thickness measurements and the free product program would continue, but the soil and groundwater analytical sampling and the bioventing would not be conducted.

Site Closure (VDEQ, 1999)

Between early 1995 and mid-1999, IMS continued to monitor and recover free phase hydrocarbons at the site. Based on the absence of free product in most wells and the minimal thickness of product in other wells, VDEQ granted site closure in early July 1999.

CAP Addendum (IMS, 2000)

In late July 1999, an apparent release of petroleum from the Refuse Derived Fuel Power Plant stormwater system outfall (Outfall 100) resulted in a free product sheen on the Southern Branch of the Elizabeth River surface. Immediate remedial actions were taken, including flushing a portion of the storm sewer system and some of the catch basins, removal of contamination soil identified at the site, and the use of booms and sorbents around the outfall to collect emerging product.

A CAP Addendum was completed and recommended flushing additional storm sewer catch basins; a video survey and cleaning of the storm sewer lines to identify potential leaks and repairs; an evaluation of the storm sewer backfill material for the presence of free product; installation of additional monitoring wells; and free product recovery using drum sump collection points, sorbents, and monitoring wells.

Revision to CAP Addendum (NAVFAC, 2000a)

There were no instances of noticeable sheen or odor at Outfall 100 during NNSY inspections conducted between July and December 2002 and less than 0.01 ft of product was noted in site wells. As a result, a Revision to the CAP Addendum was prepared and recommended only quarterly wet weather monitoring for oil and grease in catch basins, borings for free product, continued monitoring of the drum sump collection system and existing monitoring wells, and quarterly reporting for 1 year.

Site Closure (VDEQ, 2003)

A closure request was made in January 2003 to cease all remedial actions at the site. VDEQ accepted the closure request in August 2003.

Current Status

In September 2003, an oily sheen was noted at Outfall 100 during a surveillance of the area. Emergency response personnel discovered a significant amount of oily water collecting at a historical monitoring site at the SPSA and approximately 700 gallons of oily water were removed. The source was suspected to be oil-contaminated soil resulting from a past diesel fuel transfer line rupture. Only trace amounts of sheen were noted at the outfall after the initial cleanup.

The Navy continued to gauge monitoring wells for 6 months; however, the VDEQ decided the environmental case would not be re-opened unless significant product was detected. In September 2006, significant product was observed in the drum sump collection system and the environmental case was re-opened.

Site remediation is primarily conducted through the use of AFVR. Monthly free product recovery and monitoring and quarterly and annual reporting is conducted. As of the first quarter 2008, free product was measured in one monitoring well (MW-11) at a thickness of 0.02 ft (Figure 9-1). Between January 2007 and March 2008, a total of 12.3 gallons of free product have been recovered through AFVR events. Monthly free product recovery and monitoring and quarterly and annual reporting will continue until remedial endpoints for free product (0.01 ft) is met for 6 consecutive months.

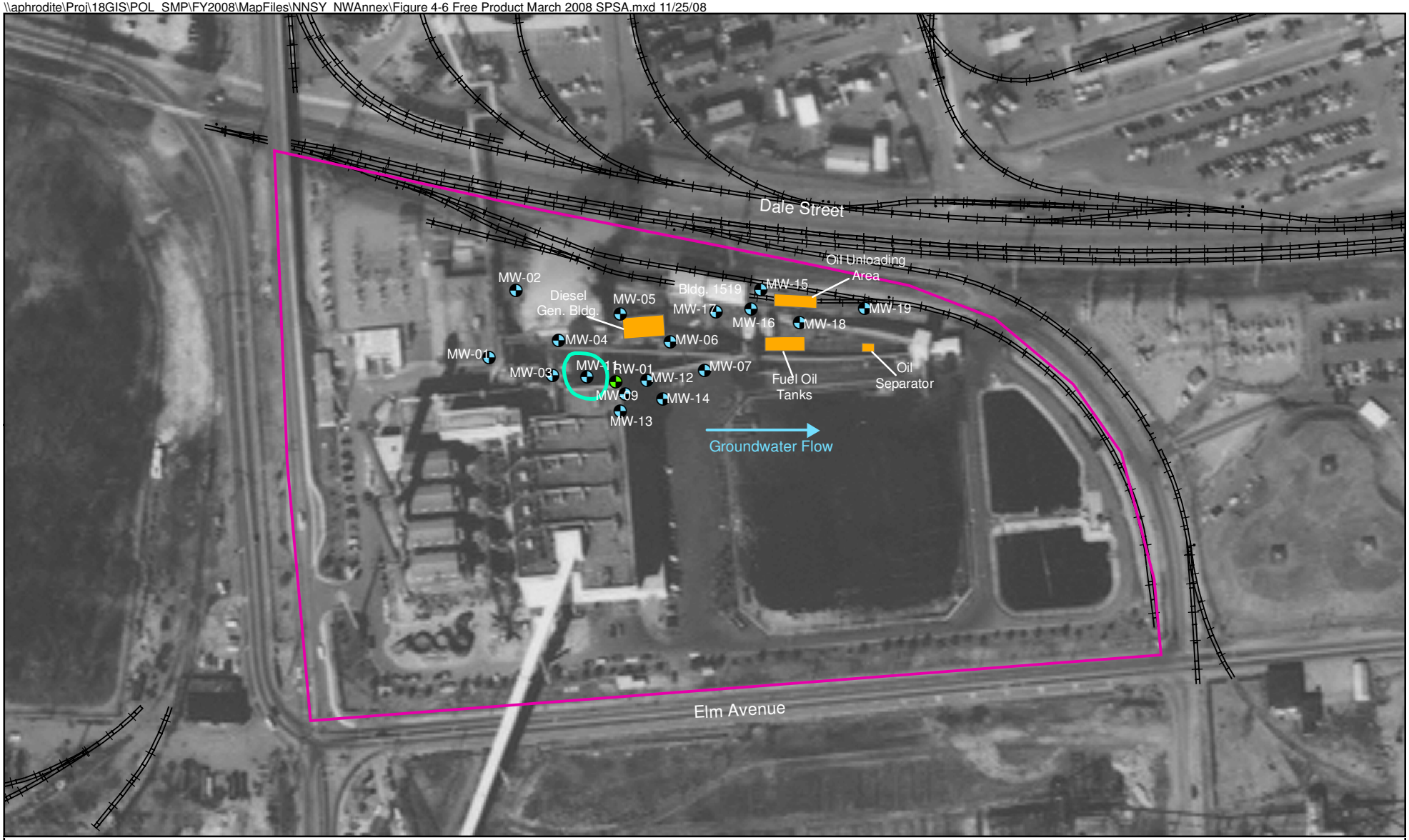
Proposed Activities for FY 2008

Monthly free product monitoring and recovery of select monitoring wells, and quarterly and annual reporting will continue in FY 2008.

Optimizations/Recommendations

Lithology at the SPSA site consists primarily of sand with trace amounts of silt and clay. Hydraulic conductivity at the site is approximately 10^{-3} cm/s. Free product was measured in one well at a thickness of up to 0.02 ft in March 2008. Product recovery is currently being completed primarily by AFVR. For the past three quarters, less than one quarter of a gallon of product has been removed per quarter. It is likely that remaining product at this site is residual and additional physical free product recovery methods are unlikely to result in recovery of substantial amounts of product. Addition of nitrate/nutrient amendments or an oxygen source such as ORC® is recommended to encourage natural biodegradation processes. Costs associated with this type of treatment are estimated to be between $15,000 and $25,000.

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\NNSY_NWAnnex\Figure 4-6 Free Product March 2008 SPSA.mxd 11/25/08



Legend

- Monitoring Well
- Recovery Well
- Railroads
- Free Product Plume (January 2008)
- Site Boundary

N
W E
S

0 100 200
Feet

Figure 4-6
SPSA
Norfolk Naval Shipyard
Portsmouth, Virginia

CH2MHILL

4.7 Tank 272, PC# 00-5225

Tank 272 is located in the Tank 270 Area, a former tank farm located in the south-central section of the fuel depot within Craney Island (**Figure 3-5**). The Tank Farm was comprised of seven (CI-272 through CI-278) 2.1-million gallon capacity "cut-and-cover" bulk storage tanks constructed in the 1950s. These tanks were constructed of steel surrounded by concrete and covered with soil graded from the top of the tank to ground level. A large berm surrounded the tank wall and prevented access closer than approximately 30 ft from the tank. The tanks previously contained JP-5 jet fuel. Over the last 15 years, the tanks have been progressively drained and removed from service. As of January 2004, all seven of the tanks had been cleaned, demolished, and leveled with the surrounding ground surface. A site map, including the location of former Tank 272 and the existing monitoring wells is presented as **Figure 4-7**. Depth to shallow groundwater ranges from 5 to 9 ft bgs and flows to the south-southeast towards Craney Creek.

Investigation of the Fuel Product above the Water Table (U.S. Army Waterways Experiment Station, 1985)

Soil and groundwater sampling and analysis was conducted in the Tank 270 area in late 1984 and early 1985. The results indicated that there was a fuel product lens (9.6 ft) on groundwater centered on the southern edge of CI-275, which may be the result of a tank leak or spill.

CAP (O'Brien and Gere, November 199b0)

Following a series of investigations of the Tank 270 Area performed in the mid-1980s, a remediation system was constructed in July 1990. The system included three dual-phase recovery wells which contained a groundwater depression pump and a product recovery pump. Groundwater pumping created a groundwater depression to draw floating product into the well's radius of influence. Groundwater and free product were pumped from the three recovery wells in separate groundwater and product lines to a OWS. The installed groundwater pumping and product recovery system was reportedly operational for only a short period of time due to electrical short-circuiting problems and/or possible pump fouling. The system was abandoned in place prior to 1994. The pump system was rehabilitated and restarted in January 1997.

Site Check (R.E. Wright Environmental, Inc., 1996)

In January 1996, there was an approximately 127,000 gallon spill of JP-5 jet fuel. The spill was reportedly the result of an overfilling of CI-276 during fuel transfer operations. The fuel flowed over the surface to the south and ponded against the soil berm separating the tank farm and Craney Creek, however, no fuel reached the creek. By February 1996, approximately 100,000 gallons of fuel had been recovered and a subsurface investigation was conducted. The conclusions indicated the greatest impact to soil was in the vicinity of CI-275 and that free product was detected on groundwater at two soil probe locations (See Section 4.8).

Amended CAP (McLaren/Hart, Inc., June 1997)

The Amended CAP proposed to amend the November 1990 CAP by implementing the following measures:

- Enhance the existing product recovery system by installing a product recovery tank in closer proximity to the existing product recovery system to reduce the pumping distance and head;
- Increase product recovery by installing solar-powered product skimmer units; and
- Increase the efficiency of the groundwater pumps by replacing them with pumps that have appropriate capacities and cycling times.

In March 1999, the system was shut-down when it was determined that the recovery wells were ineffective at recovering product due to inadequate well construction and the distance from the location of the recovery wells to the accumulated product. The solar product skimmers were effectively collecting product from areas where the greatest product thicknesses were observed. Therefore, it was determined to discontinue the operation of the groundwater recovery wells and continue use of the solar skimmers.

SCR (NAVFAC, 2000c)

To further assess the site conditions, a field screening (Site Characterization Analysis and Penetrometer System [SCAPS]) investigation was completed within the Tank 270 area. The analysis confirmed the findings from previous investigations and indicated additional contamination to the west and south of the original plume.

CAP (J.A. Jones, 2001)

The CAP update for the Tank 270 Area focused on recommended corrective actions for the Tank 272 Area. The CAP proposed the installation of a gravel-filled trench system and a series of recovery wells with slurp tubes connected to a liquid-ring vacuum pump.

SCR Addendum (NAVFAC, 2003b)

To fill data gaps from previous investigation activities, a field screening (SCAPS) investigation and monitoring well installation with groundwater sampling and analysis was conducted. The results of this investigation confirmed the extent of product in the Tank 270 Area and proposed more aggressive remediation strategies, such as a barrier trench.

Amended CAP (CH2M HILL, 2004)

An Amended CAP was issued to update the corrective action for the Tank 270 area. The corrective action included a series of trenches and a series of well points placed under a vacuum to recover product and groundwater, monthly monitoring and recovery of free product, semi-annual monitoring of nine wells (MW-3, MW-4, MW-5, MW-6, MW-19, MW-20, MW-23, MW-25, and SS6M) for BTEX, naphthalene, TPH-DRO, pH, dissolved oxygen (DO), chemical oxidant demand (COD), carbon dioxide (CO_2), and natural attenuation parameters analysis to document that dissolved product is not migrating into Craney Creek, and quarterly reporting until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months.

CAP Addendum (Tetra Tech FW, Inc., 2004)

The CAP Addendum for the Tank 270 Area, focused on recommended corrective actions for the Tank 272 Area to address the performance and limitations of the current remediation system, additional remediation measures to address the areas north and southwest of the former tank, and evaluation of groundwater flow and the potential for migration of the northern portion of the plume. The recommended corrective action includes a combination of two extraction technologies, including expansion of the recovery well and monitoring well network; re-development of existing recovery trench wells to restore the recovery trench; improvements to the recovery trench; adding the recovery trench back to the system; portable skimmers and VE along the southern plume; monthly monitoring and recovery of free product; semi-annual sampling as described in the Amended CAP (CH2M HILL, 2004); and quarterly and annual reporting until the remedial endpoints for free product (0.01 ft) and naphthalene (23.5 µg/L in monitoring wells MW-3, MW-4, MW-5, and MW-6) are met for 6 consecutive months.

Current Status

In June 2006, the system expansions, outlined in the CAP Addendum were completed. Product recovery is conducted through the use of a dual-phase vacuum extraction and treatment system, five product skimmer units, and manual bailing. In March 2008, free product was measured in 40 wells (TRW-1, TRW-2, TRW-3, TRW-4, RW-B, RW-C, RW-, RW-F,RW-G, RW-I, RW-J, RW-L, RW-L, RW-M, RW-N, RW-O, RW-P, RW-R, RW-S, RW-U, MW-1, MW-2, MW-5, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-21, MW-22, MW-24, MW-26, MW-28, and MW-30) at a maximum thickness of 2.70 ft (**Figure 4-7**). As of March 2008, a total of 96,351 gallons of free product have been recovered by vacuum extraction, skimmer system operations, and manual bailing activities. Monthly free product recovery and monitoring, semiannual groundwater sampling and quarterly and annual reporting will be conducted until the remedial endpoint for free product (0.01 ft) and naphthalene (23.5 µg/L in monitoring wells MW-3, MW-4, MW-5, and MW-6) are met for 6 consecutive months.

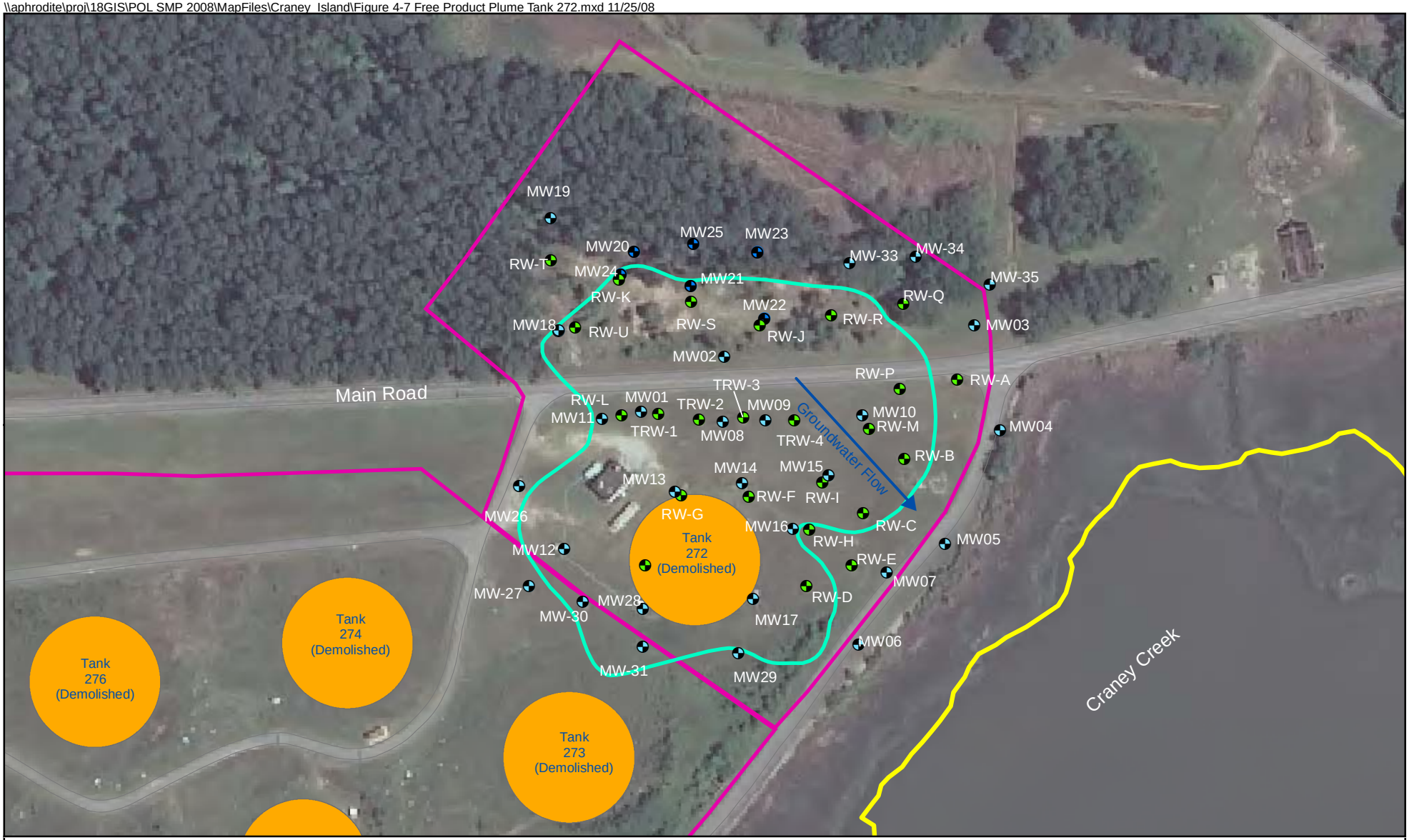
Proposed Activities for FY 2008

Monthly free product monitoring and recovery, semi-annual groundwater analytical monitoring of select monitoring wells, and quarterly and annual reporting will continue in FY 2008.

Optimizations/Recommendations

The Tank 272 site is characterized by "mixed sands" of moderate to high permeability, inferred to be high 10^{-4} cm/s range. The average depth to water is 5 to 9 ft bgs. Vacuum enhanced recovery, combined with skimming, continues to recover significant mobile LNAPL (3,699 gallons in the first quarter of 2008, and 96,351 gallons overall). Recovery efforts utilizing the present system of trenches/sumps and wells should continue as long as significant LNAPL volume (i.e., at least 10-20 gallons per month) is maintained.

\\aphrodite\proj\18GIS\POL SMP 2008\MapFiles\Craney_Island\Figure 4-7 Free Product Plume Tank 272.mxd 11/25/08



Legend

- Monitoring Well
- Recovery Well
- Base Boundary
- Free Product Plume (March 2008)
- Site Boundary

N
W E
S

0 75 150
Feet

Figure 4-7
Tank 272
Craney Island
Portsmouth, Virginia

CH2MHILL

4.8 Tank 275, PC# 88-0664

Tank 275 is located in the Tank 270 Area, a former tank farm located in the south-central section of the fuel depot within Craney Island (**Figure 3-5**). The Tank Farm was comprised of seven (CI-272 through CI-278) 2.1-million gallon capacity "cut-and-cover" bulk storage tanks constructed in the 1950s. These tanks were constructed of steel surrounded by concrete and covered with soil graded from the top of the tank to ground level. A large berm surrounded the tank wall and prevented access closer than approximately 30 ft from the tank. The tanks previously contained JP-5 jet fuel. Over the last 15 years, the tanks have been progressively drained and removed from service. As of January 2004, all seven of the tanks had been cleaned, demolished, and leveled with the surrounding ground surface. A site map, including the location of former Tank 275 and the existing monitoring wells is presented as **Figure 4-8**. Depth to shallow groundwater ranges from 5 to 9 ft bgs and flows to the south-southeast toward Craney Creek.

Investigation of the Fuel Product above the Water Table (U.S. Army Waterways Experiment Station, April 1985)

Soil and groundwater sampling and analysis was conducted at the Tank 270 area in late 1984 and early 1985. The results indicated that there was a fuel product lens (9.6 ft) on groundwater centered on the southern edge of CI-275, which may have been the result of a tank leak or spill.

CAP (O'Brien and Gere, November 1990b)

Following a series of investigations of the Tank 270 Area performed in the mid-1980s, a remediation system was constructed in July 1990. The system included three dual-phase recovery wells which contained a groundwater depression pump and a product recovery pump. Groundwater pumping created a groundwater depression to draw floating product into the well's radius of influence. Groundwater and free product were pumped from the three recovery wells in separate groundwater and product lines to a OWS. The installed groundwater pumping and product recovery system was reportedly operational for only a short period of time due to electrical short-circuiting problems and/or possible pump fouling. The system was abandoned in place prior to 1994. The pump system was rehabilitated and restarted in January 1997.

Site Check (R.E. Wright Environmental, Inc., 1996)

In January 1996, there was an approximately 127,000 gallon spill of JP-5 jet fuel. The spill was reportedly the result of an overfilling of CI-276 during fuel transfer operations. The fuel flowed over the surface to the south and ponded against the soil berm separating the tank farm and Craney Creek, however, no fuel reached the creek. By February 1996, approximately 100,000 gallons of fuel had been recovered and a subsurface investigation was conducted. The conclusions indicated the greatest impact to soil was in the vicinity of CI-275 and that free product was detected on groundwater at two soil probe locations.

Amended CAP (McLaren/Hart, Inc., July 1997)

The Amended CAP proposed to amend the November 1990 CAP by implementing the following measures:

- Enhance the existing product recovery system by installing a product recovery tank in closer proximity to the existing product recovery system to reduce the pumping distance and head;
- Increase product recovery by installing solar-powered product skimmer units; and
- Increase the efficiency of the groundwater pumps by replacing them with pumps that have appropriate capacities and cycling times.

In March 1999, the system was shut-down when it was determined that the recovery wells were ineffective at recovering product due to inadequate well construction and the distance from the location of the recovery wells to the accumulated product. The solar product skimmers were effectively collecting product from areas where the greatest product thicknesses were observed. Therefore, it was determined to discontinue the operation of the groundwater recovery wells and continue use of the solar skimmers.

SI Report (NAVFAC, 2000c)

A SI was completed in an effort to tie together the previous studies conducted. A field screening (SCAPS) investigation was conducted within the Tank 275 Area and the analysis confirmed the findings from previous investigations and indicated additional contamination to the west and south of the original plume.

Site Evaluation (CH2M HILL, 2003a)

A Site Evaluation of the Tank 275 Area was conducted to provide an understanding of the site based on previous investigations, verify the 2000 SCAPS investigation and incorporate additional soil and groundwater investigations into the current site understanding, and provide a basis for evaluating potential remedial alternatives. The majority of the dissolved phase contamination was encountered from 3 to 10 ft bgs whereas the depth to free product was encountered from 3 to 6 ft bgs. There were two large areas of product identified, one east of CI-275 (between CI-275 and CI-273) and one west of CI-275 (between CI-275, CI-277, and CI-276). Within these areas, three "zones" were identified as having the thickest product based on past data. These areas surround CI-275, one to the north, one to the southwest, and one to the east/northeast. Based on the data, the product thickness in these three zones ranged from 4 to 5 ft with a total recoverable volume of over 138,000 gallons. The report recommended remediation efforts be focused on the areas identified.

SCR Addendum (NAVFAC, 2003b)

To fill data gaps from previous investigation activities, a field screening (SCAPS) investigation and monitoring well installation and groundwater sampling and analysis was conducted. The results of this investigation confirmed the extent of product in the Tank 270 Area and proposed more aggressive remediation strategies, such as a barrier trench.

Amended CAP (CH2M HILL, 2004)

An Amended CAP was issued to update the corrective action for the Tank 270 area. The corrective action included a series of trenches and a series of well points placed under a vacuum to recover product and groundwater, monthly monitoring and recovery of free product, semi-annual monitoring of seven wells (MW-5, MW-6, MW-15, MW-17W, MW-18, MW-23, and MW-29) for BTEX, naphthalene, TPH-DRO, pH, DO, COD, and CO_2 analysis to document that dissolved product is not migrating into Craney Creek, and quarterly reporting until the remedial endpoint for free product (0.01 ft) has been met for 6 consecutive months.

Current Status

Remedial measures currently underway in the tank area include the use of a vacuum enhanced skimmer system, five solar-powered solar skimmers, and monthly AFVR events. Groundwater elevation and product thickness are measured on a monthly basis, and solar-powered product skimmers are relocated as needed to areas where the product thickness is the greatest. The Annual Report for 2004 (Sovereign, 2005a) recommended the remedial endpoint for free product in groundwater as 0.01 ft in all wells; and for naphthalene as the in-stream saltwater chronic surface water standard (23.5 µg/L) in the monitoring wells adjacent to Craney Creek (MW-3, MW-4, MW-5, MW-6, MW-15, MW-17W, MW-18, MW-23, MW-29, and SS6M). During the September 2007 groundwater sampling event, the maximum naphthalene concentration detected was 76.5 µg/L in monitoring well SS6.

As of the first quarter of 2008, free product was measured in 60 wells (MW-20, MW-21, MW-22, MW-24, MW-25, MW-26, MW-27, MW-30, MW-40, MW-41, MW-42, MW-43, MW-50, MW-51, MW-52, MW-53, MW-54, MW-55, MW-60, MW-61, MW-62, MW-63, MW-64, MW-65, MW-66, MW-67, MW-68, MW-69, MW-70, MW-71, MW-72, MW-73, MW-74, MW-76, MW-77, MW-79, MW-80, MW-81, Hill-02, SS-05, RW-01, RW-02, RW-03, RW-04, RW-05, RW-06, RW-07, RW-08, RW-09, RW-10, RW-11, RW-12, RW-13, RW-14, RW-15, RW-16, SU-1, SU-2, SU-3, and SU-4) at a maximum thickness of 2.39 ft (**Figure 4-8**). As of March 2008, a total of 140,061.10 gallons of free product has been recovered from skimmer system operation (including solar-powered skimmers) and AFVR events. Monthly free product recovery and monitoring, annual groundwater sampling, and quarterly and annual reporting will be completed until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months.

Proposed Activities for FY 2008

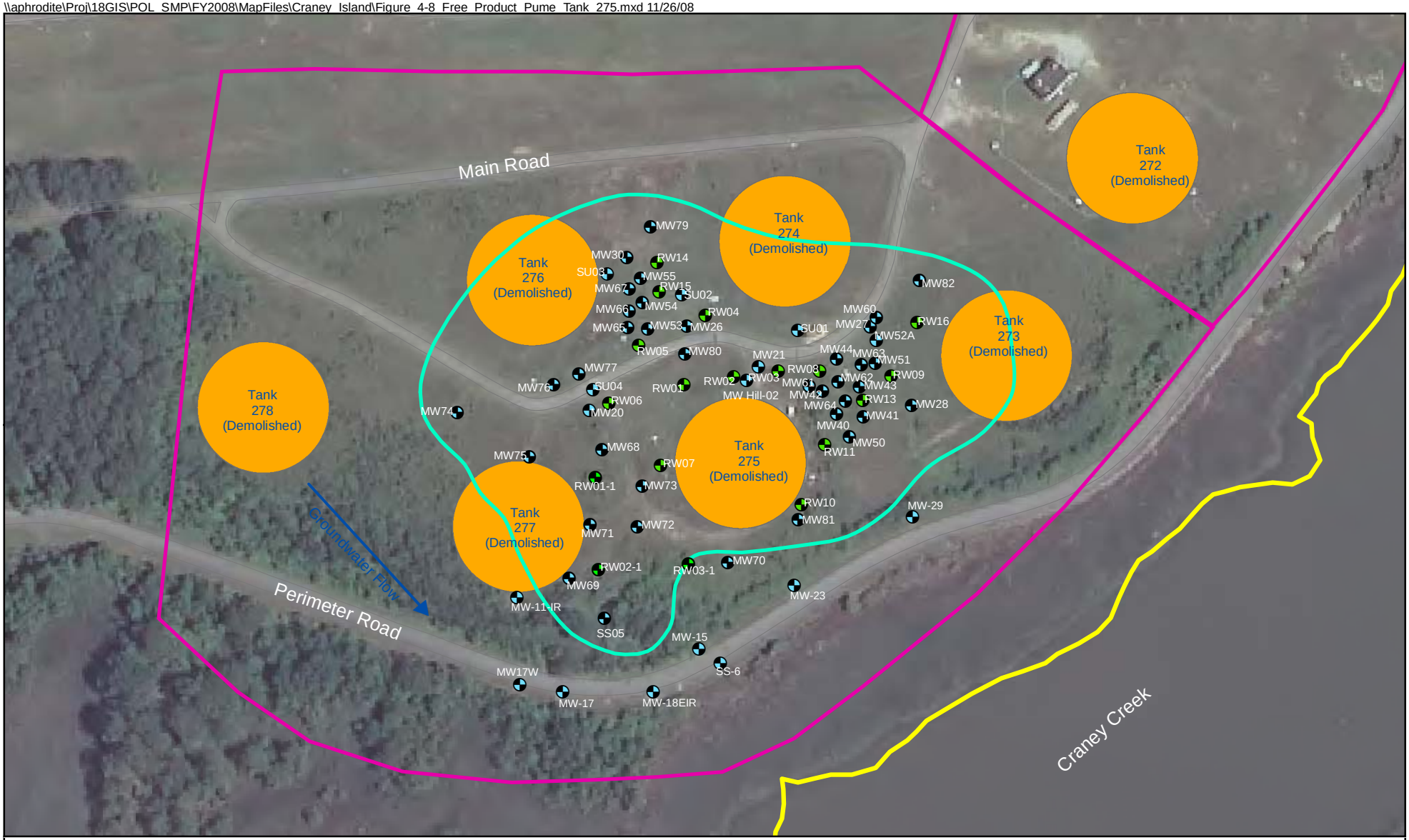
Monthly free product monitoring and recovery, semi-annual groundwater analytical monitoring of select monitoring wells and quarterly reporting will continue in FY 2008.

Optimizations/Recommendations

The Tank 275 site is similar to Tank 272, in terms of lithology and inferred hydraulic conductivity. The average depth to water is 5-9 ft bgs. Current operations include LNAPL recovery from vacuum enhanced skimmers, solar powered skimmers, and AFVR events. Cumulative free product recovery for the first quarter 2008 was estimated to be approximately 467 gallons. Significant thicknesses of free product (> 1 ft) remain in a few monitoring wells; however, free product thicknesses in most wells are few tenths of a ft or less, as of March, 2008. It may be possible to expedite closure of the site with a full scale vacuum enhanced

recovery system, similar to Tank 272; however, the volume of purged fluids requiring treatment would significantly increase O&M costs from present levels. Because of the restrictive groundwater standard for naphthalene (23.5 µg/L), a biological remediation process is needed for groundwater. Pending results of the Tank 125 and Pumphouse 58 pilot test, biosparging may be an effective alternative. Until that time, current recovery efforts should continue.

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\Craney_Island\Figure_4-8_Free_Product_Pume_Tank_275.mxd 11/26/08



Legend

- Site Boundary
- Facility Boundary
- Monitoring Well
- Recovery Well
- Free Product Plume (March 2008)

N
W E
S

0 75 150
Feet

Figure 4-8
Tank 275
Craney Island
Portsmouth, Virginia

CH2MHILL

4.9 Tank 125, PC# 94-0101

Tank 125 is located in the north-central portion of Craney Island (**Figure 3-5**) and is bordered by wooded areas to the north and west, Main Street (asphalt) to the south, and additional USTs to the east. Tank 125 was formerly used for the storage of JP-5 jet fuel. Evidence of contamination near Tank 125 was first noted during an SI of an adjacent tank (UST 126) in January 1993. In response, a site check was performed and confirmed that a release had occurred in the Tank 125 area. A site map, including the location of the tank and existing monitoring wells, is presented as **Figure 4-9**. The depth to shallow groundwater ranges from 4 to 6 ft bgs and flows to the west-southwest across the site.

SCR (ES&E, 1993a)

The site assessment included monitoring well installation followed by soil and groundwater sampling. The results indicated the presence of TPH in soil and groundwater and free product in all seven monitoring wells, with a maximum thickness of 5.38 ft. Based on the analytical results, the risk assessment indicated minimal risk to human health and the environment. The remediation assessment recommended removal of free product using a combination of pump and treat and VE.

CAP (ESE, 1995c)

A 24-hour dual extraction pilot test was conducted in March 1995 in order to further evaluate the viability of VE as a remedy. Based on the results of this study, a CAP was prepared recommending pump and treat. However, the Navy decided to use solar-powered product skimmers, and the CAP was not submitted to VDEQ.

CAP Addendum (NAVFAC, 2002)

As a result of the solar-powered product skimmers, average product thickness decreased from 4.43 inches in 1999 to 2.57 inches in 2000. Because the skimmers become less effective as the product thickness decreases, a more aggressive product recovery method consisting of a bio-slurping system was recommended. The bio-slurping system was designed to work with the existing skimmers.

The corrective action included quarterly monitoring and recovery of free product and monthly effluent monitoring for naphthalene, TPH, and pH and vapor effluent monitoring for TPH until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months.

Current Status

Product recovery has been conducted primarily through the use of solar-powered skimmers, the bioslurping system, and AFVR. The bioslurping system suffered freeze damage in January 2008 but was repaired and restarted on March 6, 2008. Thirty-seven percent of the free product recovered during the first quarter 2008 was recovered by the bioslurping system even though it only operated for 43 days quarter.

Monthly free product recovery and monitoring and quarterly and annual reporting is conducted. As of the first quarter of 2008, free product was measured in 23 wells (RW-05, RW-06, RW-07, RW-08, RW-09, RW-12, RW-13, RW-16, RW-17, RW-18, RW-19, RW-21, RW-22, RW-23, RW-24, RW-25, GT-03, GT-05, MW-01, MWP-02, MW-02, ESE-03, and ESE-04 at a

maximum thickness of 1.26 ft (**Figure 4-9**). Between 1998 and March 2008, a total of 16,998.18 gallons of free product has been recovered from solar-powered skimmer operation, the bioslurping system, and AFVR events.

In January 2008, a CAP Addendum was submitted to include biosparging as part of the remedy for Tank 125 in the central area of the site where the highest thickness of free product is present (CH2M HILL, 2008). This CAP was approved by the VDEQ. In summer 2008, four new biosparge wells were installed at the site. The air sparging system was installed and operational as of November 2008. Monthly free product recovery and monitoring and quarterly and annual reporting will continue until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months; however free product recovery will occur only occur in recovery wells outside the biosparge system radius of influence during system operation.

At 3- and 6-month intervals after the biosparge system is operational, the compressor will be deactivated for a short period of time to conduct free product thickness and wall level measurements at weekly intervals. After 6 months of system operation, a Biosparging Effectiveness Summary Report will be prepared to analyze monitoring data compiled during the 6-month period following system start-up and include recommendations for future activities at the Site.

Proposed Activities for FY 2008

Biosparging and quarterly and annual reporting will continue in FY 2008.

Optimizations/Recommendations

The need for additional optimization will be determined following the biosparging pilot test.

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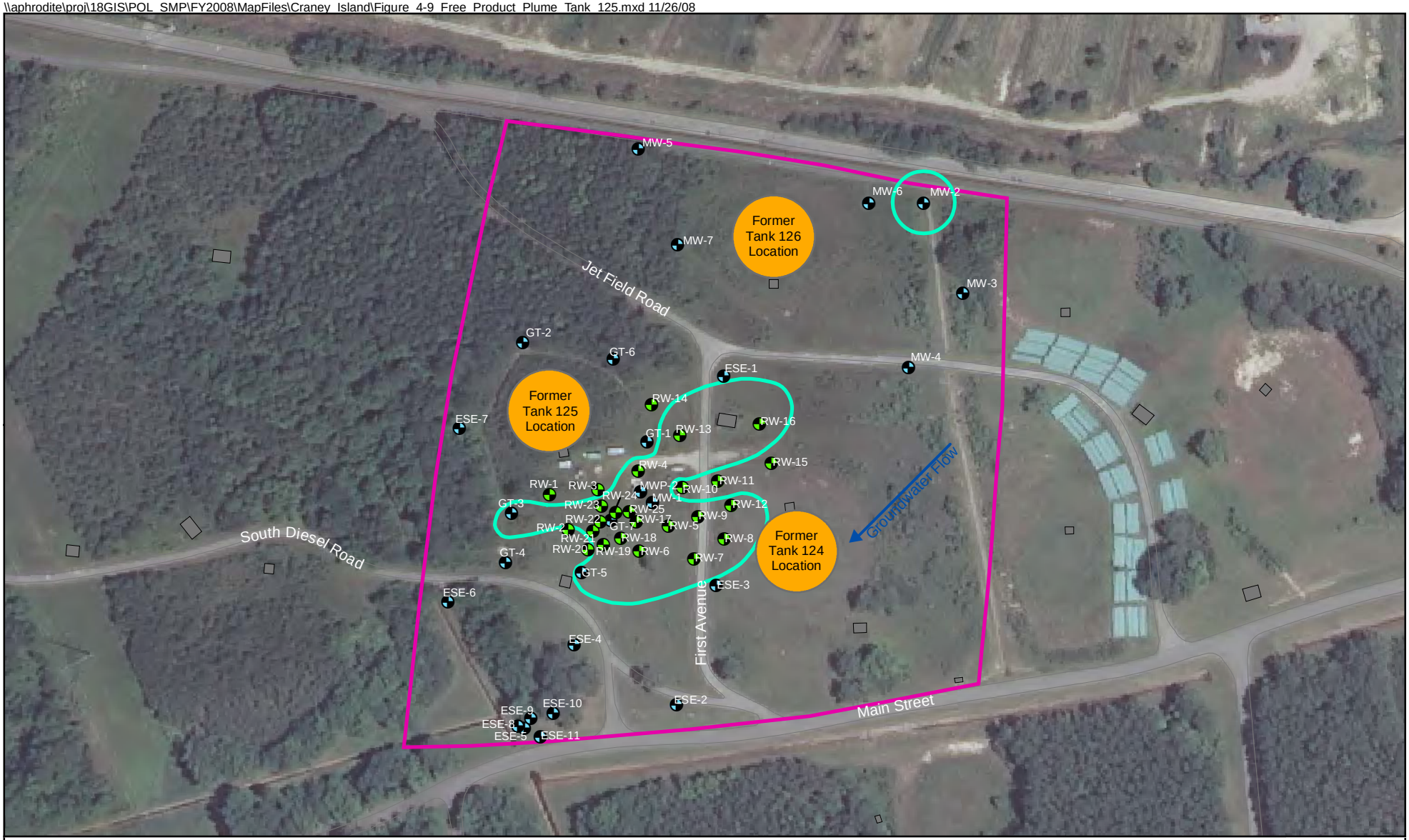

Legend

- Monitoring Well
- Recovery Well
- Free Product Plume (March 2008)
- Site Boundary
- Building

N
W E
S

0 100 200
Feet

Figure 4-9
Tank 125
Craney Island
Portsmouth, Virginia

CH2MHILL

4.10 Pumphouse 58, PC# 03-5043

Pumphouse 58 is located at the eastern end of Craney Island (**Figure 3-5**). Former AST 59 (demolished in the mid 1980s) was located within the defined investigation area and was used to store reclaimed fuel. Underground piping connected AST 59 to a loading rack located to the south across South Delta Avenue. ASTs 60 and 61 are located to the west of the site within a bermed area and have a capacity of 101,000 gallons each. The original tanks were installed in 1943 and replaced in 1999. Currently, the tanks are used for fuel oil reclamation. Two additional former ASTs, 63 and 64, were located north of the site and were demolished in the summer of 2002 . AST 63 and 64 each had a capacity of 588,000 gallons and were used for oil-water separation. A site map, including the location of former AST 59, the surrounding ASTs, and existing monitoring wells, is presented as **Figure 4-10**. Depth to shallow groundwater at the site ranges from 0.5 to 2.5 ft bgs and flows the southeast. At the site, the presence of the floating product likely depresses the water table due to hydrostatic pressure.

Site personnel first identified a release at Pumphouse 58 in December 2002. Product was observed seeping up through seams in the concrete, near the remaining tank bottom of AST 59 during periods of heavy rainfall.

SI (NAVFAC, 2003a)

An SI was conducted including a SCAPS investigation to screen for petroleum contamination in the subsurface and to classify the shallow lithology at the site. The findings of the investigation indicated the fuel release was associated with former AST 59. The petroleum contamination was found to extend beyond the former AST footprint but remained isolated in the area just south of Pumphouse 58. Laser induced fluorescence (LIF) data indicated the contamination exists at a depth range of 0 to 7 ft bgs. Gas chromatogram results indicated the contamination to be a weathered blend of fuels indicative of an older release.

SCR (CH2M HILL, 2003c)

The site assessment investigation involved installation of monitoring wells followed by soil and groundwater sampling. Free product was measured in three site monitoring wells at thicknesses of up to 11 ft. BTEX, carbazole, and naphthalene were detected in groundwater within the free product plume at concentrations above MCL and/or risk based concentrations (RBCs). Benzo(a)pyrene and naphthalene were detected in soil at concentrations exceeding RBCs. The risk assessment identified no immediate unacceptable risk to human health or the environment resulting from contamination at the site. The remediation assessment recommended free product recovery via manual bailing or a passive product recovery system.

CAP (CH2M HILL, 2003d)

The CAP recommended the collection of free product in the groundwater near AST 59 using AFVR. The corrective action included monthly free product recovery and monitoring and quarterly reporting until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months.

Current Status

Product recovery has been conducted primarily through the use of solar-powered skimmers and AFVR events. Monthly free product recovery and monitoring and quarterly and annual reporting is conducted. As of the first quarter of 2008, free product was measured in eight wells (MW-01, MW-03, MW-04, RW-01, RW-02, RW-03, RW-04, and RW-05) at a maximum thickness of 2.16 ft (**Figure 4-10**). Between February 2003 and March 2008, a total of 1,770.99 gallons of free product has been recovered from skimmer system operation skimmers and AFVR events.

In February 2008, a CAP Addendum was completed to change the remedy for the site from product recovery to biosparging (CH2M HILL, 2008). The CAP was approved by the VDEQ. In summer 2008, four new biosparge wells and two monitoring wells were installed at the site. An air sparging system is planned to be completely operational at the site in December2008. Free product recovery will be discontinued in all wells across the site during system operation.

At the 3- and 6- month intervals after the biosparge system is operational, the compressor will be deactivated for a short period of time to conduct free product thickness and wall level measurements at weekly intervals. After 6 months of system operation, a Biosparging Effectiveness Summary Report will be prepared to analyze monitoring data compiled during the 6-month period following system start-up and include recommendations for future activities at the Site.

Proposed Activities for FY 2008

Monthly free product monitoring and recovery and quarterly reporting will continue in FY 2008. The biosparging system is planned to be online in December 2008.

Optimizations/Recommendations

A biosparging system is scheduled to be installed at this site in the December 2008, in order to address residual petroleum.

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Legend

- Monitoring Well
- Recovery Well
- Site Boundary
- Free Product Plume (March 2008)
- Building
- Roads
- Above Ground Pipe

N
W E
S

0 40 80
Feet

Figure 4-10
Pumphouse 58
Craney Island
Chesapeake, Virginia

CH2MHILL

4.11 French Drain, PC# 88-0814

The French Drain area is located in the northwest part of Craney Island (**Figure 3-5**), along South Diesel Road. The site was an old fuel storage area that contained field constructed "cut and cover" tanks that were demolished in the 1990s. A 20-inch underground diesel oil pipeline serviced the tanks, and it was reported that numerous leaks occurred along the pipeline. The French Drain consisted of a shallow trench with a water table depression pump, two skimmer pumps, access and observation decking, and a product storage tank and its associated piping. The French Drain system was removed in June 2001, and the shallow trench was filled in. A site map, including the location of the former French Drain and existing monitoring wells, is provided as **Figure 4-11**. The depth to shallow groundwater ranges from 7 to 8 ft bgs and flows to the south-southeast.

Site Risk Assessment Report (Versar, Inc., 1990)

To assess the potential contamination and potential human health and environmental risks, a soil gas survey was conducted followed by the installation of monitoring wells and groundwater and soil sampling. The investigation was a comprehensive study of two large study areas; one study area encompassed the French Drain area. Approximately 37,000 gallons of free product was identified in the subsurface of the entire study area.

CAP (Versar, Inc. 1992a)

The CAP recommended free product removal through the use of a shallow trench with a water table depression pump and skimmer pump in addition to the excavation and incineration of contaminated soil.

Site Assessment Report (CH2M HILL, 2002)

The French Drain system was removed in June 2001, and the shallow trench was filled in. A site assessment investigation was completed to reevaluate conditions at the site, including monitoring well installation followed by groundwater and soil sampling. Based upon observations made during the field investigation, signs of soil staining and high photoionization detector (PID) readings were limited to within an approximate 125 ft distance around the perimeter of the former French Drain area. Free product was observed in the wells at a maximum of 0.04 ft, therefore, periodic free product pool monitoring and removal of the product by manual bailing or installation of a passive product recovery system was recommended.

SI (CH2M HILL, 2003b)

An SI was conducted to delineate the free product plume boundary sufficient to design the extent of excavation. The investigation involved PID screening and soil sampling for TPH analysis. Approximately 4,900 ft^3 of contamination was identified for excavation.

Current Status

Product recovery has been conducted primarily through the use of one solar-powered skimmer, and AFVR events. The skimmer assembly has been periodically relocated to monitoring wells with the greatest accumulations of product measured during gauging events. Monthly free product recovery and monitoring and quarterly reporting is conducted.

As of the first quarter of 2008, free product was measured in four wells (FD-01, FD-07, FD-08, and FD-09) at a maximum thickness of 1.19 ft (**Figure 4-11**). Between 1998 and March 2008, a total of 1,346.93 gallons of free product has been recovered from skimmer system operation (including solar-powered skimmers and AFVR events. Monthly free product recovery and monitoring and quarterly reporting will continue until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months.

Proposed Activities for FY 2008

Monthly free product monitoring and recovery and quarterly reporting will continue in FY 2008.

Optimizations/Recommendations

Lithology at the French Drain site consists primarily of silty clay and clayey silt to the maximum explored depth of about 12 ft bgs, with some fine sand, particularly in the deeper portions of the soil column. The total estimated impacted volume of soil is approximately 180 cubic yards; however, the extent of contamination at the site is not well defined. Present recovery efforts include skimming and AFVR, with limited production during the first quarter of 2008 (13 gallons). A total of 1,346 gallons has been recovered from the site to date. There is only one well (FD-08) which contains a significant thickness of free product (> 1 ft). All other wells contain 0.3 ft or less of measurable LNAPL. Following additional delineation activities, excavation of target areas should be considered, because of limited remediation options in silty clays. The estimated cost of excavation in target areas is $80,000.

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Legend

- Monitoring Well
- Free Product Plume (March 2008)
- Site Boundary
- Tank
- Roads
- Treeline
- Buildings

N
W E
S

0 40 80
Feet

Figure 4-11
French Drain
Craney Island
Portsmouth, Virginia

CH2MHILL

4.12 Tank 11, PC# 03-5152

The Craney Island 1-20 Fuel Farm covers approximately 35.5 acres in the southeastern portion of the facility, at the mouth of Craney Creek and the Elizabeth River (**Figure 3-5**). Tank 11 is one of the 19 existing tanks at the Fuel Farm. The tanks were constructed in 1918 with lap riveted steel on top of concrete ringwall foundations. Historical information indicates the tanks were previously used for jet fuel, heavy fuel oils, Navy Special Fuel Oil (NSFO), and molasses storage. Sixteen (16) of the tanks are currently used for diesel fuel marine (DFM) storage, while the remaining three hold fuel oil reclaimed (FOR).

Each tank is approximately 115 ft in diameter and 30 ft high with a 2.1 million gallon capacity. The tanks are connected by a network of aboveground piping that extends to the fuel piers. A concrete wall (berm) separates the tanks in pairs and surrounds the entire fuel farm; however, there is no liner within the berms, only bare soil between the tanks and concrete walls. A project is planned to demolish all of the 19 existing tanks by 2009, grade level and raise the fuel farm site, construct new berms with liners, and build a series of seven new, larger tanks. A site map, including the location of Tank 11, the surrounding ASTs, and existing monitoring wells, is presented as **Figure 4-12**. Depth to groundwater ranges from 4 to 6 ft bgs and flows to the southwest towards Craney Creek.

Site Characterization Survey (Baker, 2003b)

A Site Characterization Survey (SCS) was conducted at the Craney Island 1-20 Fuel Farm to assess if the subsurface had been impacted by petroleum activities. The investigation included monitoring well installation and soil and groundwater sampling and analysis. Visible signs of petroleum contamination were identified in the soil and TPH concentrations were elevated. Free product was identified in nine of the 11 wells installed, ranging from 0.05 to 1.5 ft.

SCR Addendum (NAVFAC, 2004e)

An SCR Addendum for the Craney Island 1-20 Fuel Farm was conducted to include areas outside the tank berms. Additional soil screening data, monitoring well installation, groundwater sampling and analysis, and slug testing was conducted to further evaluate the site conditions.

The petroleum contamination around Tank 11 appeared to be an aged heavy fuel oil, consistent with NSFO, which was previously stored in Tank 11. The contamination was limited to within 15 ft of the Tank 11 perimeter (within the tank berms), at depths ranging from 2 to 4 ft bgs. Due to its viscous nature, NSFO is not likely to migrate. Free product was measured at thicknesses of up to 0.31 ft. No immediate risk to human health and the environment was identified with respect to site contaminants. Recommendations included continued site monitoring, free product recovery from the affected locations within the tank berms, additional investigations as warranted, and periodic reevaluation of site conditions.

Current Status

Currently, free product recovery is conducted by AFVR at the site. Monthly free product recovery and monitoring and quarterly reporting is conducted. As of the first quarter of 2008, free product was measured in one well (RW-11-1) at a thickness of 0.02 ft (**Figure 4-12**). Between January 2005 and March 2008, a total of 194.81 gallons of free product has been

recovered from AFVR events. Monthly free product recovery and monitoring and quarterly reporting will continue until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months.

Proposed Activities for FY 2008

During the upcoming tank removal and reconstruction effort, considerations will be taken for the excavation and disposal of the petroleum-impacted soil. Monthly free product monitoring and recovery and quarterly reporting will continue in FY 2008.

Optimizations/Recommendations

Lithology at Tank 11 consists primarily of a heterogeneous mixture of sand, silt, and clay, with a distinct clay layer noted in most of the boring logs just below grade. Present recovery efforts include AFVR events, with limited recovery from six recovery wells in the first quarter of 2008 (less than 10 gallons), and total cumulative recovery of approximately 200 gallons since January 2005. There is only one well (RW-11-1) containing measurable free product, of the 13 gauged. The thickness of LNAPL measured in RW-11-1 as of March 2008 was 0.02 feet. Because of the limited presence of residual LNAPL at this site, no additional action, aside from ongoing AFVR events, is recommended at this time. In the event that free product thickness does not decline, nitrate flushing or addition of an oxygen source such as ORC® may be effective in expediting site closure. Costs associated with nitrate flushing around one well for 1 year are estimated to be between $15,000 and $20,000. Alternatively, any contaminated soil could be excavated during tank removal.

\\aphrodite\proj\18GIS\POL_SMP\FY2008\MapFiles\Craney_Island\Figure_4-12_Free_Product_Plume_tank_11.mxd 11/26/08

Legend

- Monitoring Well
- Recovery Well
- Free Product Plume (March 2008)
- Site Boundary
- Base Boundary

N
W E
S

0 150 300
Feet

Figure 4-12
Tank 11
Craney Island
Portsmouth, Virginia

CH2MHILL

4.13 Pumphouse 95, PC# 07-5061

Pumphouse 95 is located in the central portion of Craney Island (**Figure 3-11**). Pumphouse 95 was a former pumphouse used for the transfer of fuel oil. The building originally contained a pumping system that moved fuel from five, 50,000 barrel capacity ASTs. The pumping system was taken off-line approximately 10 years ago. During the winter of 2006, the former structure of Pumphouse 95 was demolished. During the demolition, fuel oil was observed in the soil adjacent to the former structure. A site map, including the location of the former Pumphouse 95 is presented as **Figure 4-13**. Depth to shallow groundwater at the site ranges from 6 to 10 ft bgs and flows to the south-southeast.

SCR (Tetra Tech EC, Inc., 2007)

The SCR was completed to delineate the extent of petroleum contamination and assess site conditions. Investigation activities included collecting soil boring samples for laboratory analysis, installing monitoring wells, performing a site survey, and collecting groundwater samples for laboratory analysis. Results indicated that petroleum contamination is present in the area where Pumphouse 95 was located; however no free product was detected in the monitoring wells. TPH contamination was detected in all soil and groundwater samples. The results of the risk assessment conducted indicated little to no risk to human health or the environment based on current site usage.

Based on the limited extent of contamination, the absence of free product in the monitoring wells, and soil and groundwater conditions, NFA was recommended for the site; however if any changes in land use that would disturb the subsurface contamination were to occur, the potential risk to human health and the environment would need to be evaluated.

SCR Addendum (Tetra Tech EC, Inc., 2007)

The SCR Addendum was completed to provide additional site-specific information on current conditions at the former Pumphouse 95. Additional soil screening and groundwater monitoring were conducted at the site with the intention of finding the source of free product observed in December 2006. The results of the SCR Addendum confirmed the results of the SCR and no additional actions were recommended.

Current Status

Site closure was granted August 5, 2008 by the VDEQ.

Proposed Activities for FY 2008

Abandon all monitoring wells to reduce potential future risk to groundwater.

Optimizations/Recommendations

The Site is closed by the VDEQ, NFA is recommended.

\\aphrodite\proj\18GIS\POL SMP 2008\MapFiles\Figure 4-13 Pumphouse 95.mxd 11/26/08

Legend

- Monitoring Well
- Base Boundary
- Site Boundary
- Building
- Paved Road

N
W E
S

0 75 150
Feet

Figure 4-13
Pumphouse 95
Craney Island
Portsmouth, Virginia

CH2MHILL

4.14 Tank 10, PC# 08-5127

The Craney Island 1-20 Fuel Farm covers approximately 35.5 acres in the southeastern portion of the facility, at the mouth of Craney Creek and the Elizabeth River (**Figure 3-5**). Tank 10 is one of the 19 existing tanks at the Fuel Farm. The tanks were constructed in 1918 with lap riveted steel on top of concrete ringwall foundations. Historical information indicates the tanks were previously used for jet fuel, heavy fuel oils, Navy Special Fuel Oil (NSFO), and molasses storage. Sixteen (16) of the tanks are currently used for diesel fuel marine (DFM) storage, while the remaining three hold fuel oil reclaimed (FOR).

Each tank is approximately 115 ft in diameter and 30 ft high with a 2.1 million gallon capacity. The tanks are connected by a network of aboveground piping that extends to the fuel piers. A concrete wall (berm) separates the tanks in pairs and surrounds the entire fuel farm; however, there is no liner within the berms, only bare soil between the tanks and concrete walls. A project is planned to demolish all of the 19 existing tanks by 2009, grade level and raise the fuel farm site, construct new berms with liners, and build a series of seven new, larger tanks. A site map, including the location of Tank 10 and the surrounding ASTs, is presented as **Figure 4-14**. Depth to groundwater ranges from 4 to 6 ft bgs and flows to the southwest toward Craney Creek.

The Site was identified by base personnel when stained soil and free-product floating on exposed groundwater was observed during routine maintenance work on a subsurface pipeline.

Site Characterization Report (EnVetCo, 2008)

A Site Characterization Survey (SCS) was conducted at the Craney Island Tank 10 area to assess if the subsurface had been impacted by petroleum activities. The investigation included subsurface soil analysis. Visible signs of petroleum contamination were identified in the soil and determined to be DFM. The extent of the plume was not determined. The risk assessment conducted indicates potential unacceptable risk to human and ecological receptors. Excavation and hydraulic controls were recommended to reduce contamination and prevent migration of DFM.

Current Status

Currently, no product recovery is occurring at the site. Further investigation is needed to determine the extent of contamination before action to remove product is implemented.

Proposed Activities for FY 2008

Further investigation and site characterization is planned for FY 2008.

Optimizations/Recommendations

More information is required before optimization may be recommended.

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\Craney_Island\Figure 4-14 - Tank 10.mxd 11/26/08

Legend
- Site Boundary
- Facility Boundary

N
W E
S

0 150 300
Feet

Figure 4-14
Tank 10
Craney Island
Portsmouth, Virginia

CH2MHILL

4.15 Pier Areas A, B, C, and D, PC# 91-0436

Pier Areas A, B, C, and D are found along the Elizabeth River in the northwestern portion of NSN (**Figure 3-6**). Pier Area A is located in the vicinity of Piers 5 and 7., pier Areas B and D are located in the vicinity of Piers 9 and 10, and Pier Area C is located adjacent to Piers 1 and 2. The Pier Areas function as ship loading facilities and are utilized year-round for maintenance, loading, unloading, and storage of naval surface and subsurface vessels. Petroleum contamination was first observed at Pier Areas A, B, C, and D in the early 1980s. Site maps for Pier Areas A, B, C, and D are provided as **Figures 4-15A through 4-15D**. Depth to shallow groundwater generally ranges from 5 to 7 ft bgs and flows westward toward the Elizabeth River.

Petroleum Leakage Study (ERM, 1980)

This study identified petroleum contamination in the pier areas. A remediation program that utilized buried drains and sump collection systems in the areas of greatest free product accumulation was initiated shortly after the report was completed, but was abandoned during the mid-1980s due to disrepair.

Plan of Action and Milestones Report (Versar, Inc., 1991a)

The investigation confirmed a broad area of contamination between Pier 2 and Pier F (this area encompasses Pier Areas B, C, and D) as a result of leaks from fuel tanks. Removal of the free product using trenches and skimmer pumps was recommended.

Site Risk and Remediation Assessment Report (Versar, Inc., 1991b)

Minor risks were identified based on exposure to dissolved phase contaminants in groundwater. The report recommended development of a CAP.

CAP (Versar, Inc., 1993)

The corrective action implemented to remove free product used trenches and skimmer pumps. The remedial endpoint identified in the CAP was to remove product to a thickness of less than 0.01 ft for at least 1 year. As part of trenching activities, soils excavated with concentrations of TPH greater than 50 mg/kg were to be disposed of at an offsite facility.

Remediation System Decommissioning and Well Abandonment (OHM, 2001)

The Area A product recovery system recovered approximately 1,000 gallons of product by 2001. Due to the construction of a liner for the fuel farm, the Area A monitoring and recovery wells were abandoned and the free product system was decommisioned.

Supplemental SI Report for Pier Area C (Sovereign, 2005c)

In August 2005, a Supplemental SI was conducted at Pier Area C to delineate the extent of the free product plume and evaluate the efficiency of the existing skimmer system. The investigation used the Triad approach which combined soil sampling, fingerprint analysis, Fuel Fluorescence Detector analysis, and onsite TPH analysis. The two types of petroleum products present at the Pier C area were determined to consist of diesel and jet fuel. The report recommended discontinuing product recovery at recovery wells containing little free product,

installation of two additional recovery wells in locations with thicker product, and discontinuing AFVR at the site (due to the potential to create zones of thin product surrounded by halos of thicker, unrecoverable product). The report also recommended consideration of bioremediation or chemical oxidation approaches in areas of the free product plume where the product thickness is too low to allow for mobile recovery of product.

Current Status

Product recovery has been conducted primarily through the use of AFVR at all three areas, manual bailing at Piers Area B and Area D, and a solar-powered skimmer system at Pier Area C. Monthly free product recovery and monitoring and quarterly and annual reporting is conducted. As of the first quarter of 2008, free product was measured in four wells (RW-B01, RW-B03, OW-B02, and OW-B03) at a maximum thickness of 1.91 ft in Pier Area B (**Figure 4-15B**),.in 21 wells (RW-C01, RW-C02, RW-C03, RW-C04, RW-C06, RW-C07, RW-C09, RW-C10, RW-C11, RW-C12, RW-C14, OW-C01, OW-C02, OW-C07, OW-C08, OW-C11, OW-C13, MW-11, MW-13, MW-15, and GT-05) at a maximum thickness of 6.51 ft in Pier Area C (**Figure 4-15C**), and in 15 wells (RW-D02, MW-15, MW-59, MW-60, MW-63, GW-02, GW-04, GW-08, GW-09, GW-11, SB-04, SB-06, SB-08, SB-B, and SB-05) at a maximum thickness of 0.97 in Pier Area D (**Figure 4-15D**).

As of March 2008, a total of 22,965.20 gallons of free product has been recovered from AFVR events, manual bailing, and the solar-powered skimmer system. Monthly free product recovery and monitoring and quarterly and annual reporting will continue until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months.

Proposed Activities for FY 2008

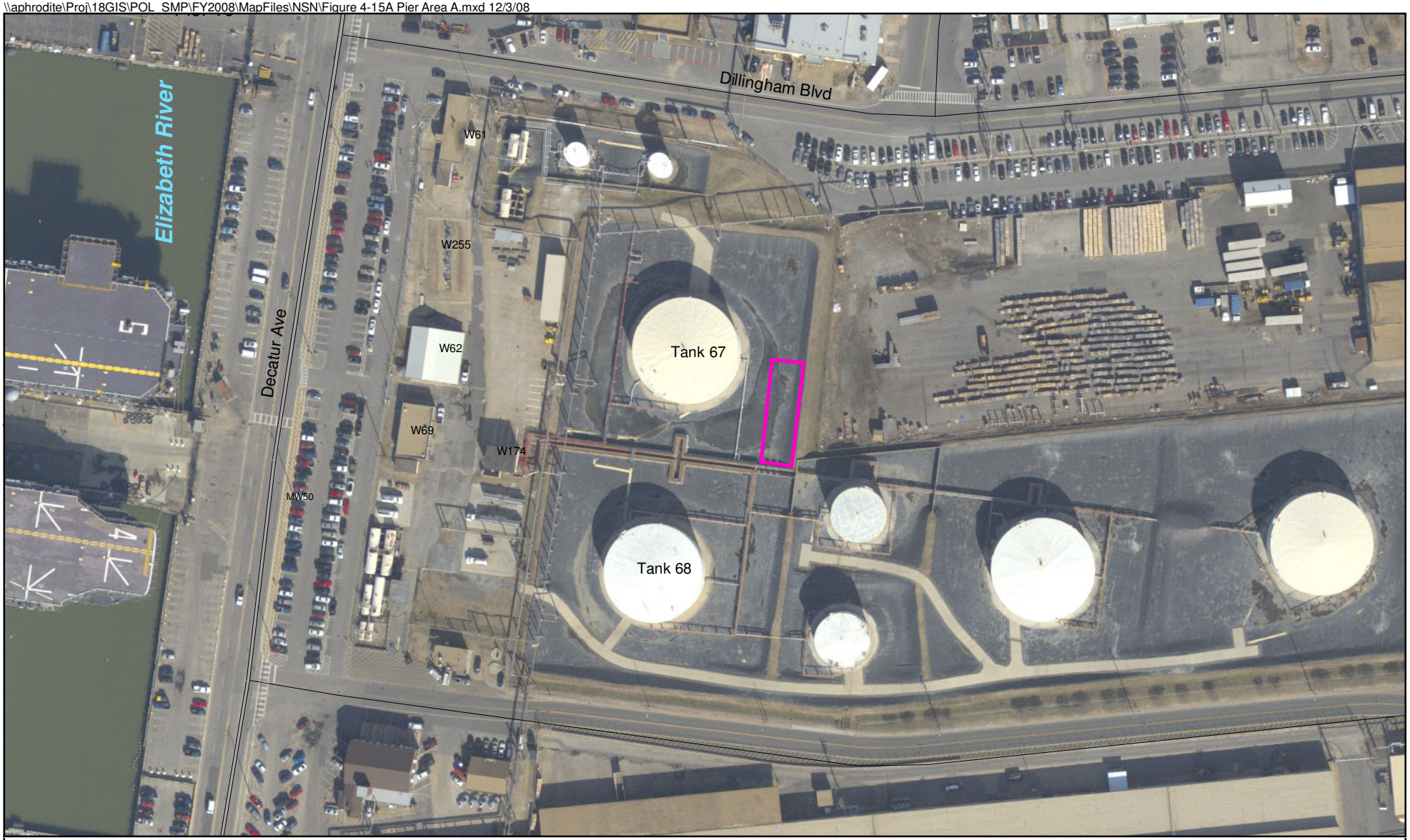
In FY 2006, the Navy plans to consider the April 2005 and December 2005 recommendations by Sovereign and continue monthly free product recovery and monitoring.

Upon completion of fuel farm liner construction, pier Area A will be reevaluated.

Optimizations/Recommendations

Lithology in the Piers B, C, and D area consists primarily of sand and silt with a hydraulic conductivity of approximately 10^{-1} cm/s. Free product recovery efforts in this area are predominantly conducted with AFVR, hand bailing and solar skimming assemblies. Maximum product thickness is 6.5 ft. Between 40 and 250 gallons of free product are being recovered each month at these sites. Recovery efforts should continue as long as significant LNAPL volume (i.e., at least 10-20 gallons per month) is maintained. Once free product recovery is no longer resulting in removal of substantial amounts of product, installation of in well aeration systems is recommended to encourage in situ biological degradation.

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\NSN\Figure 4-15A Pier Area A.mxd 12/3/08



Legend

Site Boundary

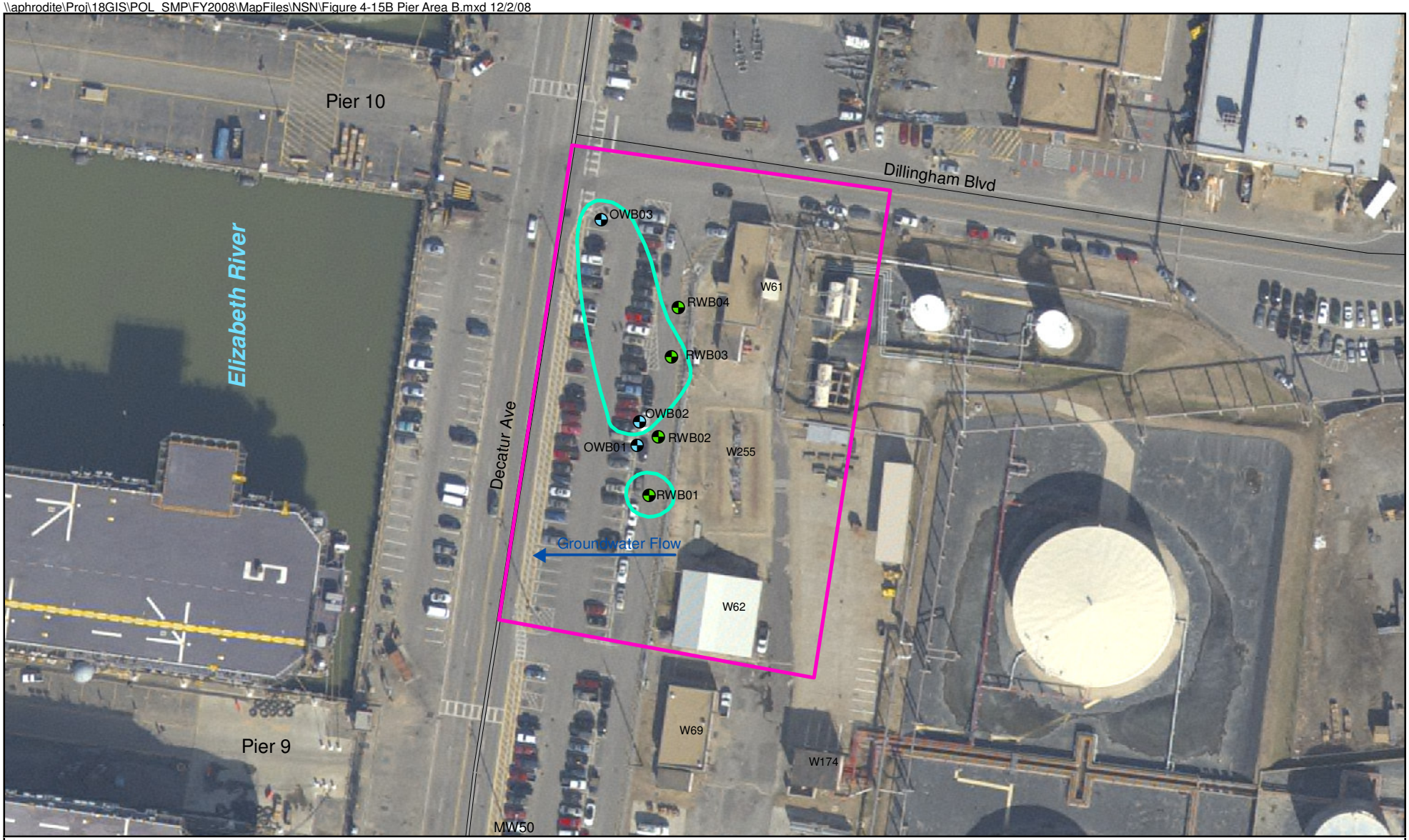
N
W E
S

0 75 150
Feet

Figure 4-15A
Pier Area A
Naval Station Norfolk
Norfolk, Virginia

CH2MHILL

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\NSN\Figure 4-15B Pier Area B.mxd 12/2/08



Legend

- Monitoring Well
- Recovery Well
- Free Product Plume (March 2008)
- Site Boundary

N
W E
S

0 50 100
Feet

Figure 4-15B
Pier Area B
Naval Station Norfolk
Norfolk, Virginia

CH2MHILL

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\NSN\Figure 4-15C Pier Area C.mxd 12/2/08

Legend

- Monitoring Well
- Recovery Well
- Site Boundary
- Free Product Plume (March 2008)

N
W E
S

0 100 200
Feet

Figure 4-15C
Pier Area C
Naval Station Norfolk
Norfolk, Virginia

CH2MHILL

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\NSN\Figure 4-15D Pier Area D.mxd 12/2/08

Legend

- Monitoring Well
- Wells with Measurable Free Product (March 2008)
- Recovery Well
- Site Boundary

N
W E
S

0 100 200
Feet

Figure 4-15D
Pier Area D
Naval Station Norfolk
Norfolk, Virginia

CH2MHILL

4.16 LP Fuel Farm, PC# 91-1711

The 13-acre LP Fuel Farm is located at the northwestern corner of the main runway at NSN (**Figure 3-6**). The fuel farm includes four bulk storage tanks and four ready service tanks are capable of storing over 1.7 million gallons of JP-5 jet fuel and twenty 25,000-gallon underground fuel storage tanks that contain either MOGAS, diesel, lube oil, JP-4, or JP-5. The tanks were reportedly installed in the 1920s and 1930s. Fuel is supplied to the fuel farm via an underground pipe from Craney Island. The site is covered by asphalt and concrete for vehicular traffic and the tanks are bunkered and lie beneath grass areas. Bousch Creek Culvert extends diagonally across the site from southwest to the northeast. A site map, including the location of the existing tanks, Bousch Creek Culvert, and monitoring wells, is provided as **Figure 4-16**. Shallow groundwater flows both northwest and southeast toward the culvert and is encountered from 3 to 6 ft bgs.

CAP (O'Brien and Gere, 1991a)

This CAP included the initial SCR (site assessment, risk assessment, and remediation assessment) with the corrective action recommendation. During the site assessment, elevated TPH and total organic halogens (TOX) were detected in soil and BTEX and TPH were detected in groundwater. Free product was measured in site monitoring wells at thicknesses up to 4.47 ft. The risk assessment did not identify any unacceptable risk to human health or the environment based on current site land use. The remediation assessment recommended soil remediation using VE and free product recovery using a groundwater depression system and skimmer pumps. The skimmer system was installed and operated until February 1994 at which time it was estimated that 2,195 gallons of free product had been recovered.

Supplemental SCR Addendum (ES&E, 1994b)

An updated risk assessment indicated potential risk to onsite workers from vapors and to ecological receptors in Willoughby Bay from site groundwater discharging into the Bousch Creek Culvert. The remediation assessment recommended installation of a vapor-enhanced pump and treat system to remove free product.

CAP (ES&E, 1994b)

The CAP presented the design for the vapor-enhanced pump and treat system. Remedial endpoints established in the CAP include reduction of free product thickness to below 0.01 ft, and reduction of dissolved phase hydrocarbons to the marine water quality standards; benzene to below 700 µg/L, toluene to below 5,000 µg/L, ethylbenzene to below 430 µg/L, and naphthalene to below 2,300 µg/L. The CAP required monthly well gauging and periodic monitoring for BTEX, naphthalene, TPH, and lead in groundwater.

CAP Addendum (Baker, 2004)

The pump and treat system recommended in the 1991 CAP was installed, but operations were ceased when an air compressor failed in December 2002. At that time, free product recovery was continued with manual bailing, product absorbent socks, and AFVR. AFVR was more successful than the treatment system at recovering larger quantities of free product at a reduced cost. The CAP Addendum was submitted to obtain VDEQ approval to change the corrective action to product recovery through AFVR. The CAP Addendum also requested

elimination of toluene, ethylbenzene, xylenes, naphthalene, TPH, and lead from the groundwater monitoring program.

Current Status

Product recovery has been conducted primarily through AFVR events and manual bailing. Monthly free product recovery and monitoring, quarterly analytical monitoring, and quarterly and annual reporting are conducted. As of the first quarter of 2008, free product was measured in seven wells (TW, MW-46, MW-50, MW-56, MW-58, MW-59, and MW-67) at a maximum thickness of 0.15 ft (**Figure 4-16**). Between January 2004 and March 2008, a total of 5,962.44 gallons of free product have been recovered through AFVR events and manual bailing activities. Monthly free product recovery and monitoring, quarterly analytical monitoring, and quarterly and annual reporting will continue until remedial endpoints for free product (0.01 ft), benzene (700 µg/L), toluene (5,000 µg/L), ethylbenzene (430 µg/L), and naphthalene (2,300 µg/L) are met for 6 consecutive months.

An additional spill of approximately 250 to 500 gallons of fuel occurred in May 2008; operator error and equipment malfunction caused the spill. An unknown amount of product entered into the storm drain emptying into Bousch Creek. Immediate clean up procedures using a vacuum truck and sorbent materials were implemented.

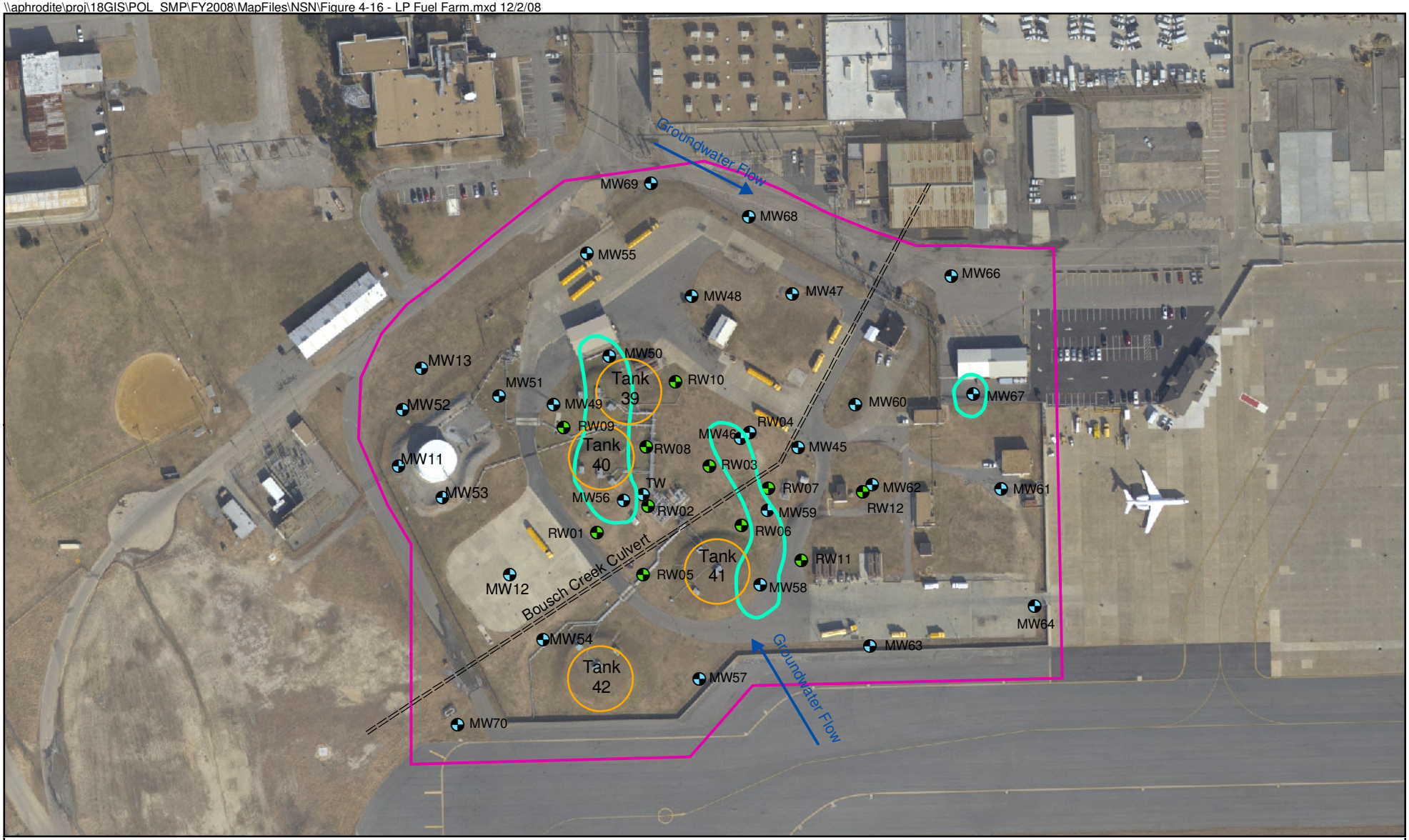
Proposed Activities for FY 2008

Monthly free product monitoring and recovery, quarterly groundwater analytical monitoring, and quarterly reporting will continue in FY 2008.

Optimizations/Recommendations

Lithology in the LP Fuel Farm area consists primarily of medium to coarse sand with some clay lenses. Hydraulic conductivity at the site is approximately 10^{-2} cm/s. The groundwater remediation system is not in operation. Current product removal in monitoring wells consists of use of absorbent socks and AFVR. Less than 10 gallons per month are being recovered. The maximum product thickness at the site was 0.15 ft, and the remaining product appears to be residual. Because endpoints are established for benzene and naphthalene which degrade under aerobic conditions, delivery of oxygen to this site would be advantageous. Pending results of the Tank 125 and Pumphouse 58 pilot test, biosparging may be an effective alternative. Until that time, current recovery efforts should continue.

\\aphrodite\proj\18GIS\POL_SMP\FY2008\MapFiles\NSN\Figure 4-16 - LP Fuel Farm.mxd 12/2/08



Legend

- Monitoring Well
- Recovery Well
- Free Product Plume (March 2008)
- Site Boundary

N
W E
S

0 100 200
Feet

Figure 4-16
LP Fuel Farm
Naval Station Norfolk
Norfolk, Virginia

CH2MHILL

4.17 SP Fuel Farm, PC# 91-1429

The SP Fuel Farm is located in the northeast portion of NSN (**Figure 3-6**). The UST system formerly consisted of four USTs: SP-340 (capacity 238,000 gallons), SP-341 (capacity 239,000 gallons), SP-342 (capacity 565,000 gallons), and SP-343 (capacity 564,000) and the associated distribution and pumping facilities. The concrete tanks were installed in 1943 and were reportedly used for the storage of aviation fuel (AVGAS). Dry wells were reportedly used for the disposal of tank strippings until the early 1970s. Product was pumped and cleaned from SP-340 and SP-341 and associated piping systems when removed from service in 1977. SP-342 and SP-343 were removed from service in 1985 and 1992, respectively. A site map, including the locations of the USTs and existing monitoring wells, is provided as **Figure 4-17**. Depth to shallow groundwater ranges from 4 to 7 ft bgs and flows to the northwest.

SCR (Baker, 1993c)

The site assessment included monitoring well installation, soil and groundwater sampling and analysis, and hydraulic conductivity testing. Results indicated the presence of TPH and BTEX in soil and groundwater. Free product was measured in site wells at thicknesses up to 1.94 ft. Although soil and groundwater contamination was evident at the site, the risk assessment did not identify any immediate risk to human health associated with site conditions. A potential future ecological risk was identified for ecological receptors in Willoughby Bay due to contamination in the SP-314 Area (**Figure 4-17**). Free product recovery was recommended.

CAP (Baker, 1993e)

The corrective action consisted of a skimmer pump recovery system for the majority of the SP Fuel Farm area and a product recovery filter system for the SP-314 area. The remedial endpoint included reduction of product thickness to below 0.01 ft. Monitoring requirements included bi-weekly free product monitoring and quarterly sampling at select wells for VOCs and TPH until the remedial endpoint for free product was met for 6 consecutive months.

Current Status

From April 2007 to May 2008, three injections of RegenOx™ were completed into the shallow aquifer via direct push technology within the vicinity of MW09. As of June 2008, free product thickness has been reduced to less than 0.01 ft. A site closure request will be submitted to VDEQ in December 2008 since the product thickness has met the remedial endpoint for six months.

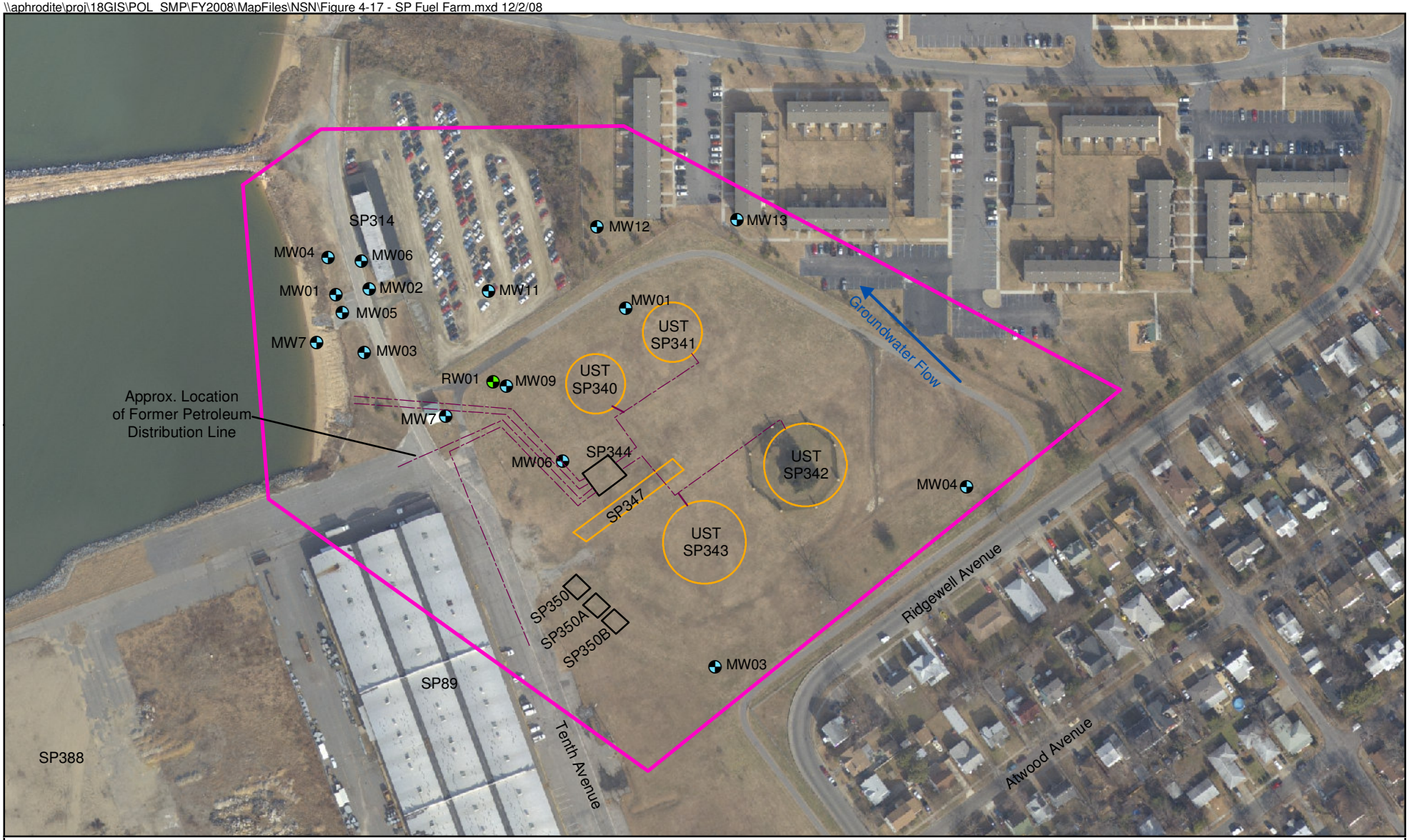
Proposed Activities for FY 2008

Monthly gauging and quarterly reporting will continue in FY 2008. In addition, a Case Closure Request will be submitted.

Optimizations/Recommendations

RegenOx™ injections were completed in 2007 and 2008. No measurable free product has been detected since the most recent injection. Therefore, no optimization activities are necessary at this time.

\\aphrodite\proj\18GIS\POL_SMP\FY2008\MapFiles\NSN\Figure 4-17 - SP Fuel Farm.mxd 12/2/08



Legend

- Monitoring Well
- Recovery Well
- Site Boundary

N
W E
S

0 100 200
Feet

Figure 4-17
SP Fuel Farm
Naval Station Norfolk
Norfolk, Virginia

CH2MHILL

4.18 Building U117, PC# 91-1538

Building U-117 is the Fleet Meteorological Building located north of the air station runway at NSN (**Figure 3-6**). The UST (U-117-1) was installed in 1971 and was located between old Building U-117 and the adjacent new wing of Building U-117. The UST was constructed of steel, had a capacity of 2,500 gallons, and contained diesel fuel. UST U-117-1 was used to supply fuel to an emergency generator located nearby. In 1984, UST U-117-1 failed a precision test due to a faulty fitting. The fitting was repaired and no additional problems were noted. UST U-117-1 was later removed during the construction of the adjacent new wing of Building U117. After construction activities were completed, a replacement UST was installed. A concrete slab covers the ground surface above the present UST. A site map, including the location of the former and existing tanks and existing monitoring wells, is provided as **Figure 4-18**. Depth to shallow groundwater is generally between 3 and 6 ft bgs and flows to the east-northeast.

SCR (Baker, 1993d)

The site assessment included monitoring well installation, soil and groundwater sampling and analysis, and hydraulic conductivity testing. Results indicated the presence of TPH and barium in soil and benzene and 1,4-dichlorobenzene in groundwater. The free product thickness was slightly above the state guideline of 0.01 ft in only one monitoring well. The risk assessment concluded that exposure to contaminants from site media did not pose an unacceptable risk to human health or the environment based on current land use. The remediation assessment recommended interim product recovery to determine whether an active remediation system would be effective.

CAP (Baker, 1993a)

The corrective action to address soil was excavation and offsite treatment of all petroleum contaminated soils. However, the CAP indicated it may be difficult to implement excavation activities because the area of contaminated soil was in close proximity to the foundation of Building U-117. Bioremediation and vacuum extraction were presented as contingency technologies if excavation could not be completed. The corrective action to address groundwater was source removal (excavation of soils) and/or a pump and treat system, depending upon the implementability and efficiency of source removal. In addition, monthly recovery and monitoring of free product was recommended. The remedial endpoint identified for free product was less than 0.01 ft at all monitoring wells.

Current Status

Product recovery has been conducted primarily through the use of AFVR, and manual bailing. Currently, the only form of free product removal is manual bailing due to the low free product thickness detected in each monitoring wells. Monthly free product recovery and monitoring and quarterly reporting is conducted. As of the first quarter of 2008, free product was measured in one monitoring well (MW-05) with a sheen of free product detected in March 2008 (**Figure 4-18**). To date, a total of 183.16 gallons of free product has been recovered through AFVR events and manual bailing activities. Monthly free product recovery and monitoring and quarterly reporting will continue until remedial endpoints for free product (0.01 ft) are met for 6 consecutive months.

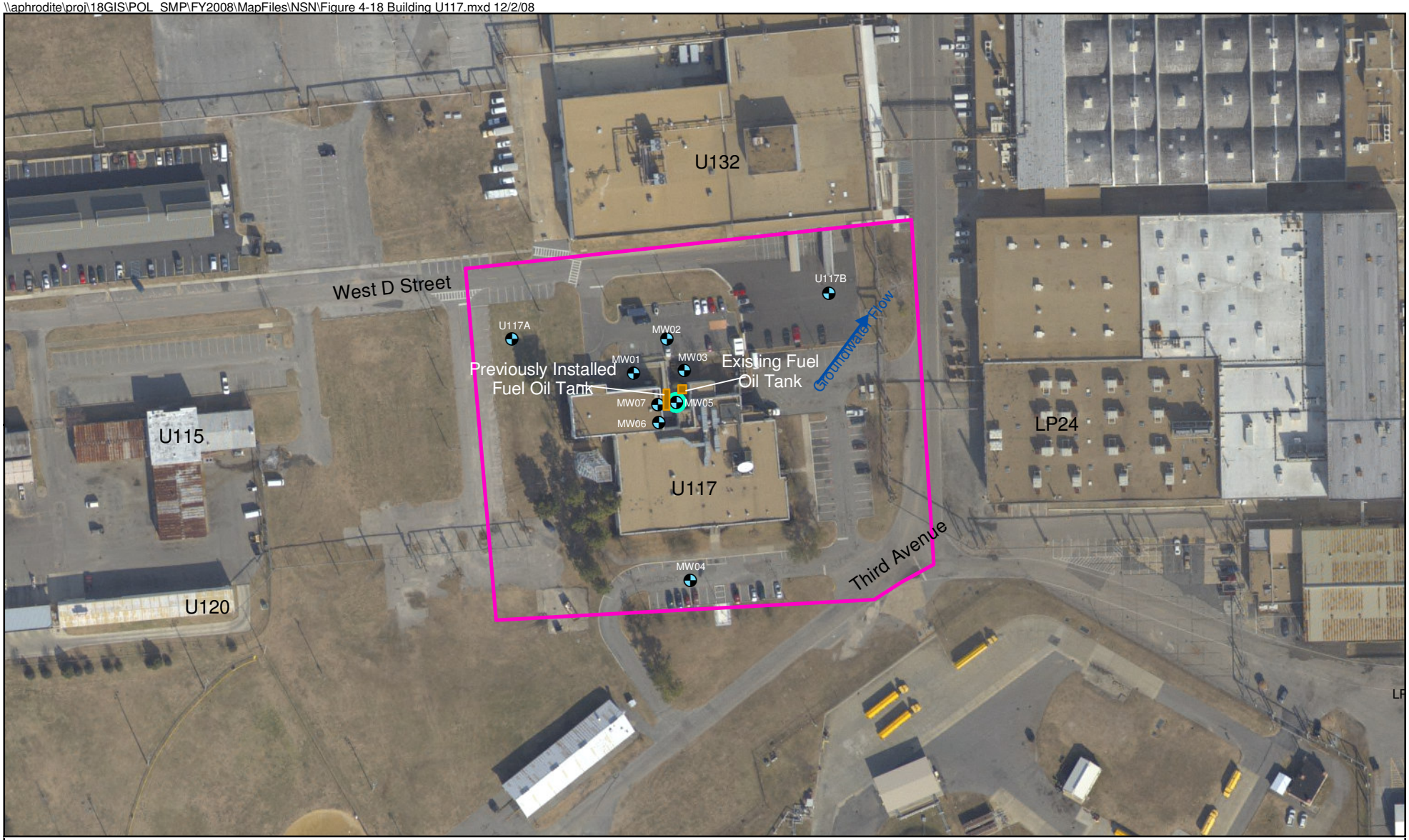
Proposed Activities for FY 2008

Monthly free product monitoring and recovery and quarterly reporting will continue in FY 2008.

Optimizations/Recommendations

Lithology at the U117 site consists of interbedded sand, silt, and shells. Hydraulic conductivity at the site is approximately 10^{-2} cm/s. Measurable free product has been detected in only one well (MW-05) during recent rounds of monitoring. During the first quarter of 2008, free product thickness was less than 0.05 ft, and during the March 2008 round of monitoring; only a sheen was detected. Additional monitoring will be continued to determine if the remedial endpoint of less than 0.01 ft of free product will be met for 6 consecutive months. If this goal is not met, addition of nitrate/nutrient amendments or an oxygen source such as ORC® is recommended to facilitate biodegradation since remaining contamination is residual and is not likely to be recovered using free product recovery methods. Costs associated with nitrate flushing around one well are between $15,000 and $20,000.

\\aphrodite\proj\18GIS\POL_SMP\FY2008\MapFiles\NSN\Figure 4-18 Building U117.mxd 12/2/08



Legend

- Monitoring Well
- Free Product Plume (March 2008)
- Site Boundary

N
W E
S

0 75 150
Feet

Figure 4-18
Building U117
Norfolk Naval Station
Norfolk, Virginia

CH2MHILL

4.19 SC-413/124, PC# 91-1428 and 91-1461

Buildings SC-413 and SC-124 are located in the southern portion of NSN (**Figure 3-6**). Building SC-413 currently houses the Navy and Marine Corps Relief Center while Building SC-124 houses the Armed Forces Staff College. The SC-413 tank group consisted of two USTs located on the west side of building SC-124. Both USTs were installed in 1967 and removed in December 1991. UST SC-413-1 was constructed of steel and had a capacity of 1,000 gallons. UST SC-413-2 was also constructed of steel, and had a capacity of 2,000 gallons. An additional UST, UST SC-124, was installed in 1986 on the south side of Building SC-124. UST SC-124 is currently active, supplying No. 2 fuel oil to Building SC-124 for heating purposes. The UST is constructed of fiberglass and has a capacity of 500 gallons. The tank is overlain by a concreted pad. A new AST located at the southwest corner of SC-124 is a replacement tank for UST SC-413-1 and has a capacity of 1,000 gallons. A site map, including the location of the former and existing tanks and existing monitoring wells, is provided as **Figure 4-19**. Depth to shallow groundwater ranges between 2 and 5 ft bgs and flows north-northeast.

SCR (Baker, 1992b)

The site assessment included monitoring well installation, soil and groundwater sampling and analysis, and hydraulic conductivity testing. Results indicated the presence of BTEX, TOX, and TPH in soil and BTEX and lead in groundwater. Free product was measured in monitoring wells at thicknesses of up to 1.53 ft. The risk assessment concluded that the site did not pose an immediate risk to human health and the environment based on existing conditions. The remediation assessment recommended removal of the remaining UST and AST, a partial removal of contaminated soil, low temperature thermal treatment, and free product removal using a combination of recovery wells and an interceptor trench.

CAP (Baker, 1992d)

The corrective action outlined in the CAP included the remediation recommended in the SCR in addition to conversion of SC-124 and SC-413 to natural gas heat. The remedial endpoint identified in the CAP was to reduce the product thickness to less than 0.01 ft.

Current Status

A closure request was accepted by VDEQ on October 21, 2001 due to product endpoints being maintained for 6 months. However, the case was re-opened shortly after because a free product thickness of greater than 0.01 ft was detected during post-operational monitoring. AFVR was begun at the site in September 2003 on a monthly basis in addition to manual bailing and the use of absorbent socks.

Product recovery has been conducted primarily through the use of AFVR, and manual bailing. Currently, the only form of free product removal is manual bailing due to the low free product thickness detected in each monitoring wells. Monthly free product recovery and monitoring and quarterly reporting is conducted. As of the first quarter of 2008, free product was measured in three wells (MW-5, MW-3A, and MW-5A) at a maximum thickness of 0.27 ft (**Figure 4-19**). To date, a total of 129.09 gallons of free product has been recovered through AFVR events and manual bailing activities. Monthly free product recovery and monitoring

and quarterly reporting will continue until remedial endpoints for free product (0.01 ft) is met for 6 consecutive months.

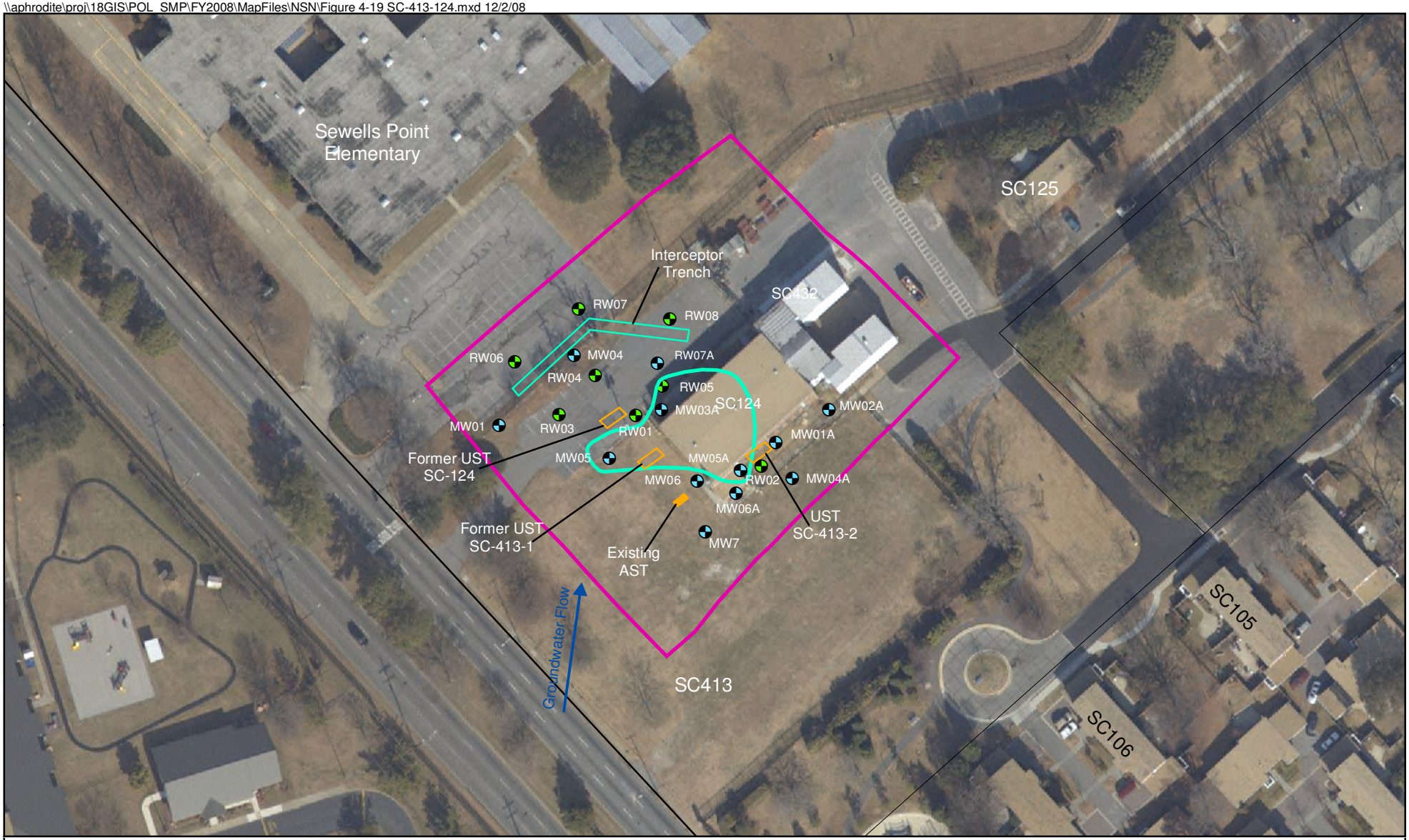
Proposed Activities for FY 2008

Monthly free product monitoring and recovery and quarterly reporting will continue in FY 2008.

Optimizations/Recommendations

Lithology at the SC-413/124 site consists primarily of sand with trace amounts of silt and clay. Hydraulic conductivity at the site is approximately 10^{-3} cm/s. Free product was measured in three wells at thicknesses of up to 0.27 ft in March 2008. Product recovery is currently being completed using manual bailing and AFVR. For the past five quarters, less than one quarter of a gallon of product has been removed per quarter. It is likely that remaining product at this site is residual and additional physical free product recovery methods are unlikely to result in recovery of substantial amounts of product. Addition of nitrate/nutrient amendments or an oxygen source such as ORC® is recommended to encourage natural biodegradation processes. Costs associated with this type of treatment are estimated to be between $25,000 and $50,000.

\\aphrodite\proj\18GIS\POL_SMP\FY2008\MapFiles\NSN\Figure 4-19 SC-413-124.mxd 12/2/08



Legend

- Monitoring Well
- Recovery Well
- Free Product Plume (March 2008)
- Site Boundary

N
W E
S

0 50 100
Feet

Figure 4-19
SC-413/124
Naval Station Norfolk
Norfolk, Virginia

CH2MHILL

4.20 Bousch Creek, PC# 88-0633 and 91-0632

Bousch Creek is located in the north central portion of NSN (**Figure 3-6**). Building LP-22 is an engine test building located in the Bousch Creek area where five USTs were previously utilized. Two of the tanks were located inside the building; a 1,000 gallon waste oil tank and a 1,000 gallon solvent tank. The remaining three tanks were located outside of the building and included two 1,000 gallon varsol tanks and one tank of unknown size and content. The two tanks within the building were abandoned in-place and the three tanks outside the building have been removed. A jet fuel leak into Bousch Creek culvert was discovered in late 1984 by NSN personnel, which resulted in further investigation of the site. A site map, including the location of the tanks, Bousch Creek culvert, and existing monitoring wells, is provided as **Figure 4-20**. Depth to shallow groundwater is typically encountered between 5 and 7 ft bgs and flows to the east.

Leak Characterization Study (Harding Lawson Associates, 1986)

Free product was discovered in site wells. Consequently, a product recovery system was installed in June 1987 and integrity testing for JP-5 jet fuel lines was initiated in October 1987. Based on the integrity testing, it was determined a leak had occurred along the JP-5 line between LP-176 and LP-22. This line was deactivated in September 1988 and replaced with an aboveground pipe.

CAP (O'Brien and Gere, 1989)

A SI was conducted as part of the CAP. Product thickness measured during ranged from no measurable product to 1.74 ft. BTEX and chlorinated VOCs were detected in groundwater. Distribution of BTEX constituents was spatially consistent with petroleum contamination at the site. The distribution of the chlorinated VOCs was not spatially consistent with the petroleum plume, and was therefore was determined to be the result of a separate, unidentified source. Consequently, the risk assessment and remedial assessment portions of the CAP addressed the petroleum plume only. The risk assessment indicated that there were no immediate risks to human health due to petroleum products at the site. The remedial endpoint identified was to reduce free product to below measurable thickness (0.01 ft). The recommended action was installation and operation of a product recovery system. A product recovery system, including product recovery pumps, an OWS, and holding tank, was installed and began operation in 1989.

SCR (Foster Wheeler Enviresponse, Inc., 1992)

The site assessment included monitoring well installation, soil and groundwater sampling and analysis, and hydraulic conductivity testing. Results indicated the presence of TPH and TOX in soil and several chlorinated VOCs in groundwater. Free product was detected in site monitoring wells at thicknesses of up to 0.82 ft. The risk assessment concluded that there was no immediate risk to human health as a result of site contaminants because no direct exposure pathways existed. However, a potential risk to ecological receptors was identified due to VOCs detected in groundwater that could feed to Willoughby Bay via the Bousch Creek Culvert. The remediation assessment recommended addressing the chlorinated VOC contamination under a separate investigation. The SCR also recommended continuation of free product removal, but recommended evaluation of the existing product recovery system in

order to determine whether it should be supplemented or replaced by additional product recovery measures.

Current Status

The chlorinated VOCs at the site are currently being addressed under CERCLA. In August of 2004, free-product recovery at this site was suspended due to hazardous substance contamination from an adjacent site. Recovery activities resumed in June 2007, and since that time free-product recovery has consisted of four passive recovery units, including two solar powered skimmers and two manually bailed skimmers. There is still a possibility that recovered liquid will be contaminated with a hazardous substance, therefore; all liquid recovered from the site is stored in a satellite accumulation area (SAA). Samples are collected to characterize the waste before each disposal event at a waste receiving facility.

As of the first quarter of 2008, free product was measured in eight wells (BC-1, BC-10, BC-14, BC-16, BC-17, BC-20, BC-27, and BC-30) at a maximum thickness of 0.89 ft. (**Figure 4-20**). To date, a total of 440.21 gallons of free product has been recovered from AFVR events, manual bailing, and the solar-powered skimmer system. Monthly free product recovery and monitoring and quarterly and annual reporting will continue until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months.

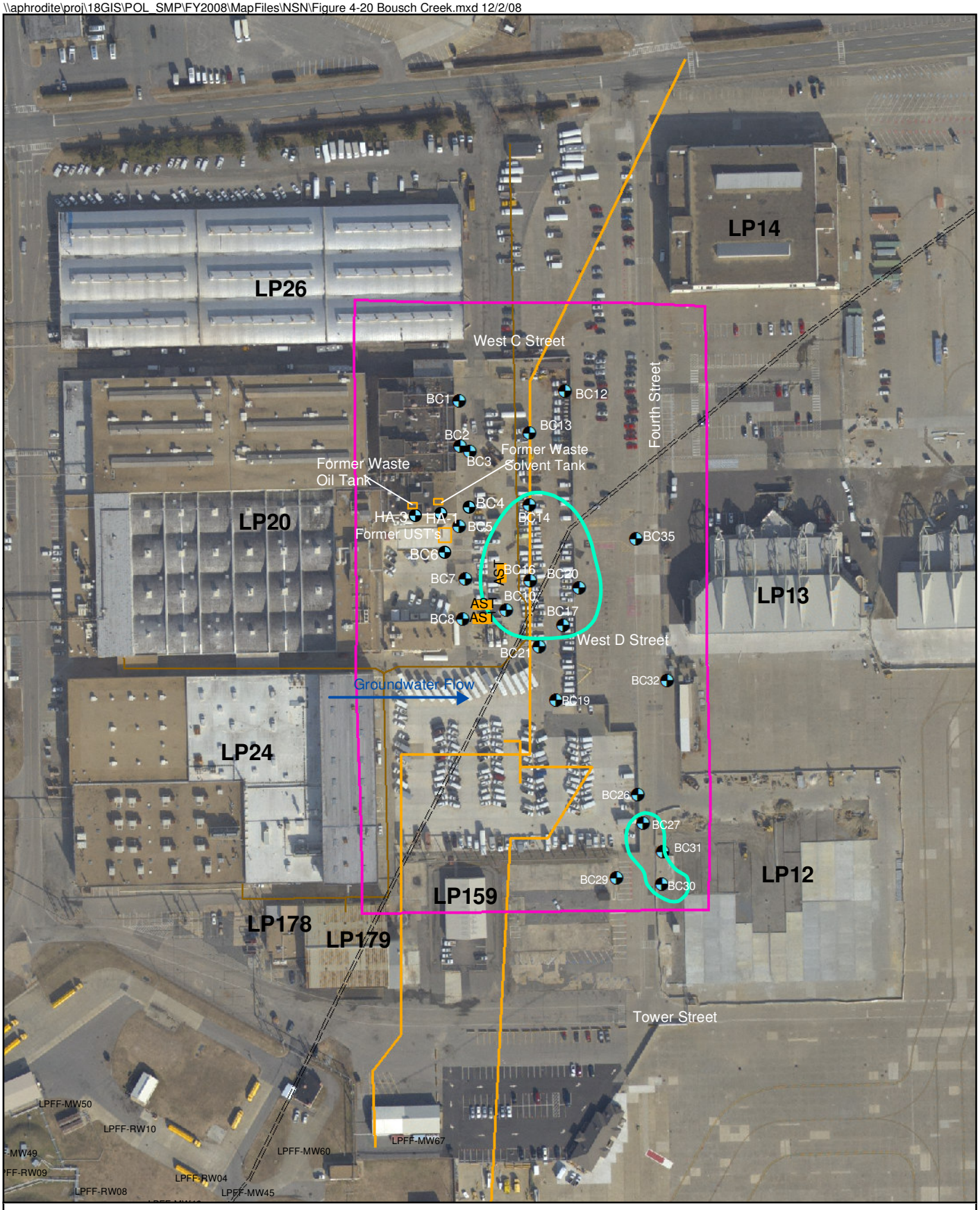
Proposed Activities for FY 2008

The chlorinated VOCs at the site are currently being addressed under CERCLA. In addition, due to the possibility that recovered liquid is contaminated with a hazardous substance, all recovered liquid is stored in a satellite accumulation area and sampled prior to disposal. Monthly free product monitoring and recovery, quarterly reporting, and recovered liquid sampling and disposal activities will continue in FY 2008.

Optimizations/Recommendations

Lithology at the Bousch Creek consists primarily of sand with some silt and clay. Hydraulic conductivity at the site is approximately 10^{-2} cm/s. Free product was measured in eight wells at thicknesses of up to 0.89 ft. Less than ten gallons per quarter have been recovered over the past three quarters at the site. It is likely that the potential to recover free product at the site is minimal. Addition of nitrate/nutrient amendments or an oxygen source such as ORC® is recommended to encourage biodegradation processes. Costs associated with this treatment are estimated to be between $25,000 and $50,000.

\\aphrodite\proj\18GIS\POL_SMP\FY2008\MapFiles\NSN\Figure 4-20 Bousch Creek.mxd 12/2/08



Legend

- Monitoring Well
- Free Product Plume (March 2008)
- Site Boundary
- JP-5 Supply Line
- Bousch Culvert
- Wastewater Line

N
W E
S

0 100 200
Feet

Figure 4-20
Bousch Creek
Naval Station Norfolk
Norfolk, Virginia

CH2MHILL

4.21 NH-94, PC# 00-5029

Building NH-94 is located just inside Gate 10 in the southern portion of NSN (**Figure 3-6**). Building NH-94 is an auxiliary generator facility for nearby Building NH-95 and houses diesel-powered generators. The product lines that supply fuel to the generators were punctured during a fence construction project in August 1999, resulting in the release of more than 6,000 gallons of fuel. Diesel fuel was reported to have flowed on to the parking lot surface and into a storm drain located south of Building NH-94. The stormwater lines extend from the parking lot and wrap around NH-94, terminating at Outfall 613 which empties into Bousch Creek, which flows to Outfall 400, which empties into Willoughby Bay. Once the leak was identified, the fuel lines were immediately taken out of service and emergency free product recovery operations were initiated. The VDEQ was notified of the release and requested that product recovery and initial abatement measures be implemented. A site map, including the location of Building NH-94, the tanks, the stormwater lines, and existing monitoring wells, is provided as **Figure 4-21**. The depth to shallow groundwater ranges from 6 to 7 ft bgs and flows to the south-southeast.

SCR (McCallum Testing Laboratories, Inc., 2000a)

The site assessment consisted of monitoring well installation and soil and groundwater sampling and analysis. Results indicated the presence of TPH in soil and BTEX and naphthalene in groundwater. Free product was measured at thicknesses up to 2.1 ft. But based on the absence of direct exposure routes, the risk assessment concluded that no unacceptable risks to human health were associated with soil and groundwater at the site. The risk assessment identified a potential risk associated with inhalation of naphthalene vapors during intrusive construction activities at the site, but stated that the vapors were not likely to exceed Occupational Safety & Health Administration (OSHA) 8-hour limits for inhalation. The remediation assessment recommended free product recovery using AFVR techniques in addition to limited excavation of petroleum contaminated soils remaining at the site.

CAP (McCallum Testing Laboratories, Inc., 2000b)

The corrective action outlined in the CAP was consistent with the remediation assessment presented in the SCR, including free product recovery using AFVR, excavation of petroleum contaminated soils (remedial endpoint for TPH of 11,000 mg/L), monthly free product (remedial endpoint of 0.01 ft) and vapor monitoring, naphthalene (remedial endpoint of 62 µg/L) monitoring at the drop inlet, and quarterly reporting until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months.

CAP Addendum (McCallum, 2000c)

In response to the CAP, the VDEQ requested that additional recovery wells be installed to facilitate AFVR based on the size of the plume. VDEQ also requested that the excavation trench remaining after soils removal be used for product recovery using sumps and AFVR. A CAP Addendum was completed to address these comments. The previous sampling results from the drop inlet did not indicate the presence of naphthalene, therefore, the CAP Addendum indicated that naphthalene monitoring would be discontinued and a final sample would be collected at the end of the post operational monitoring period to confirm attainment of the endpoint. This corrective action was initiated at the site.

SI (NAVFAC, 2004a)

An SI was conducted in response to observed petroleum at stormwater Outfall 613. The objective was to determine whether the contaminant plume has migrated or if a considerable product layer exists. The SI activities included monitoring well installation, free product monitoring in groundwater, collection of field screening (SCAPS) investigation for petroleum hydrocarbon contamination across the site, and a general survey of the site. Findings of this investigation indicate the contaminant plume has migrated approximately 20 to 25 ft to the south-southwest from the originally identified location; however, the extent of contamination and free product has diminished significantly, covering about one-third the surface area of originally reported free product.

Visible sheens observed at the permanent boom installed at Outfall 613 indicate the contaminant plume may be discharging through the stormwater system, although no evidence of hydrocarbon contamination was identified in any of the stormwater system accesses. The 60-inch concrete storm pipe was found to intersect the groundwater table and appears to be acting as a barrier, preventing the contaminant plume from moving farther southwest. Free product may be entering the storm pipe at this groundwater interface, resulting in the sheen routinely observed at Outfall 613. It is also possible that residual contamination trapped in the storm pipes is occasionally washed through the system during rain-drought events. As part of the monthly gauging effort, the Navy concluded to begin liquid-VE from wells that have most recently contained free product and from newly installed wells within the contamination zone.

Current Status

Product recovery has been conducted primarily through the use of AFVR, and manual bailing. Monthly free product recovery and monitoring and quarterly reporting is conducted. As of the first quarter of 2008, free product was measured in two wells (EP-1 and MW-13) at a maximum thickness of 0.10 ft (**Figure 4-21**). Between January 2007 and March 2008, a total of 4.70 gallons of free product has been recovered through AFVR events and manual bailing activities. Monthly free product recovery and monitoring and quarterly and will continue until remedial endpoints for free product (0.01 ft) is met for 6 consecutive months.

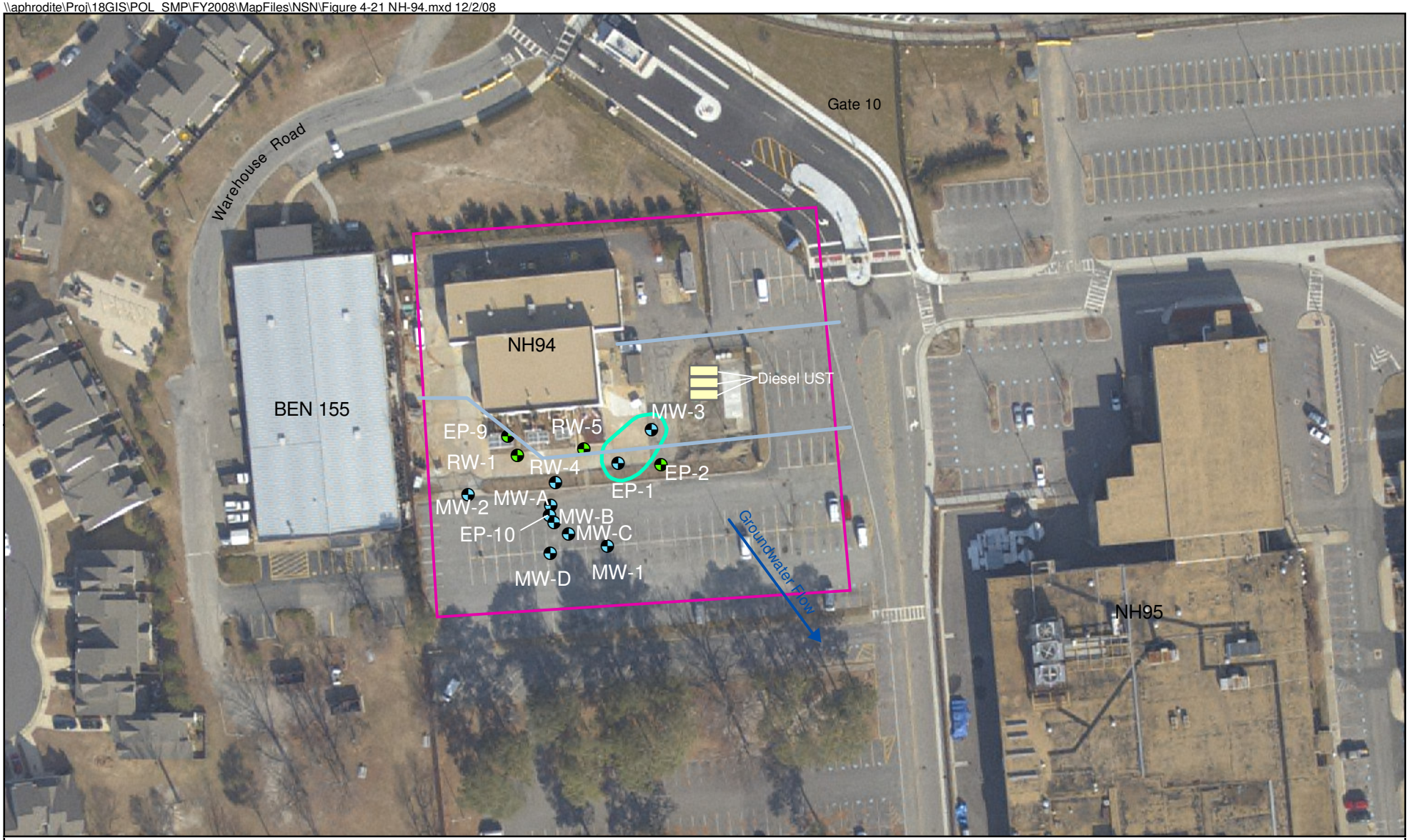
Proposed Activities for FY 2008

Monthly free product monitoring and recovery and quarterly reporting will continue in FY 2008.

Optimizations/Recommendations

Lithology at the NH-94 site consists of coarse sand with varying amounts of silt, clay and gravel. Hydraulic conductivity measurements have not been completed at the site, but based on the soil type, the hydraulic conductivity is estimated to be 10^{-1} cm/s. Free product recovery is currently completed using vacuum recovery. Typically, less than 0.25 gallons of product are recovered during each event. Free product is present in two wells at thicknesses of 0.1 ft. The diesel product present is likely to be residual given the low recovery rates. The impacted zone is relatively small at the site (40 ft x 40 ft). Excavation may be an option; however, utilities may complicate this alternative. Periodic pumping of a nitrate/nutrient or amendment or oxygen source such as ORC® is recommended if excavation cannot be completed. Costs area estimated to be between $15,000 and $20,000.

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\NSN\Figure 4-21 NH-94.mxd 12/2/08



Legend

- Monitoring Well
- Recovery Well
- Free Product Plume (March 2008)
- Site Boundary
- Stormwater Line

N
W E
S

0 50 100
Feet

Figure 4-21
NH-94
Naval Station Norfolk
Norfolk, Virginia

CH2MHILL

4.22 LP-209, PC# 97-2405

Building LP-209 is located at the southwest corner of the runway at NSN (**Figure 3-6**). Building LP-209 contains a back-up diesel generator for runway lights. The generator was formerly served by a 2,500 gallon single-walled, steel UST. In May 1997, petroleum contamination was observed in an underground concrete vault that houses 35kV electric lines. The vault typically receives water from the surrounding groundwater table and is equipped with sump pumps to remove the water. Initial abatement measures were conducted including removal of the UST and replacement of the tank with an AST, and free product removal from the electrical vault, inspection of the manholes serving the electrical conduit. Two manholes, MH-1 and MH-2, were observed containing a diesel fuel contamination. Approximately 250 gallons of diesel fuel was removed from each manhole. A site map, including the location of the Building LP-209, the product recovery system, manholes, and existing monitoring wells, is provided as **Figure 4-22**. The depth to shallow groundwater is approximately 3 ft bgs and flows in an easterly direction.

SCR (NAVFAC, 1997)

The site assessment included the installation of monitoring wells and soil and groundwater sampling and analysis. The results indicated no characteristic plume of groundwater contamination. The contamination identified was limited to the underground conduit systems and the soil immediately surrounding the tank. The SCR determined that the piping associated with UST LP-209 was the most likely source of the diesel fuel. The contamination did not spread or increase once the assumed source had been removed. The risk assessment identified potential risk to human health associated with inhalation of the diesel fumes and potential explosive hazards. The remediation assessment recommended continued product recovery from the substation vault and manholes, including monitoring of the vapor levels in the electrical vault, Building LP-172, and Building LP-209 for explosive levels and oxygen content.

CAP (NAVFAC, 1998)

The CAP recommended continued monthly monitoring (including PID) and recovery of free product; weekly inspection of the NR substation vault, recovery of any free product, and inspection of Manholes 1, 2, and 3. When encountered, free product will also be removed from Manholes 1, 2, and 3. The remedial endpoints are no visible product entering the NR substation vault and 0.01 ft free product in the monitoring wells and manholes. When the remedial endpoint has been reached, the vault will be steam cleaned.

Current Status

Product recovery has been conducted primarily through the use of AFVR, implemented in 2004, and manual bailing. Monthly free product recovery and monitoring and quarterly reporting is conducted. At of the first quarter of 2008, free product was measured in one monitoring well (MW-3) at a thickness of 0.01 ft in March 2008 (**Figure 4-22**). Between January 2007 and March 2008, a total of 0.30 gallons of free product has been recovered through AFVR events and manual bailing activities. Monthly free product recovery and monitoring and quarterly reporting will continue until remedial endpoints for free product (0.01 ft) are met for 6 consecutive months.

Proposed Activities for FY 2008

Monthly free product monitoring and recovery, monthly inspections of the NR substation vault and Manholes 1, 2, and 3, and quarterly reporting will continue in FY 2008. Once endpoints have been met, the manholes will be steam cleaned.

Optimizations/Recommendations

Lithology at the LP-209 sites consists of sandy soils with some clay. Hydraulic conductivity at the site is approximately 10^{-2} cm/s, based on the soil type. Free product is currently present in one well at a thickness of 0.01 ft. Recovery during the first quarter of 2008 consisted of 0.1 gallon of product. Additional physical recovery is not likely at this site. Addition of nitrate or an oxygen source such as ORC® is recommended to facilitate biodegradation of the contaminants. Costs associated with such a treatment are between $15,000 and $20,000

\\aphrodite\proj\18GIS\POL_SMP\FY2008\MapFiles\NSN\Figure 4-22 LP-209.mxd 12/2/08

Legend

- Monitoring Well
- Free Product Plume (March 2008)
- Site Boundary
- Manhole
- Utility Conduit

N
W E
S

0 25 50
Feet

Figure 4-22
LP-209
Naval Station Norfolk
Norfolk, Virginia

CH2MHILL

4.23 LP-45, PC# 08-5058

LP-45 is a truck loading rack located within the boundary of NSN and the LP Fuel Farm Site (**Figure 3-6**). In August 2007, the fuel pump electronic control valve at LP-45 malfunctioned which caused the release of approximately 50 gallons of JP-5 Jet Fuel to the ground's surface. Clean up activities were conducted and the release was believed to have been contained within the secondary containment. However, later in the month, 7 feet of free product was detected in a monitoring well, located approximately 10-15 ft downgradient of LP-45.

Limited SCR (CH2M HILL, 2008)

The site assessment included the installation of two temporary monitoring wells and soil and groundwater sampling and analysis. Petroleum contamination in the area surrounding LP-45 appears to be confined closely to the area directly around the spill and monitoring well MW-50 (**Figure 4-23**). Petroleum constituents related to the release were detected in the soils in higher concentrations at the source but were detected in much lower concentrations surrounding the source. Due to the absence of down gradient receptors and the relatively low concentrations of dissolved phase contamination, remediation of the dissolved plume was not recommended. Free product was only detected in monitoring well MW-50 (0.03 ft) the closest permanent well to the release. Monitoring and removal of free product in monitoring well MW-50 was recommended through manually bailing and monthly AFVR events. It was recommended that PC# 08-5058 be closed and free product removal and monitoring activities at well MW-50 be addressed in ongoing remediation at the LP Fuel Farm.

Current Status

One temporary well will be monitored at the site, however, this well will most likely be monitored as part of the LP Fuel Farm. The site is expected to be closed.

Proposed Activities for FY 2008

Since LP-45 is located within the LP Fuel Farm area, it is anticipated that no further activities will be conducted in FY2008. Any additional free product monitoring and removal and quarterly reporting will be conducted as part of the LP Fuel Farm remedial efforts.

Optimizations/Recommendations

An SCR was recently completed for this site. No product was identified in the temporary wells installed at the site. No remedy is proposed at this time, therefore no optimization recommendations are necessary.

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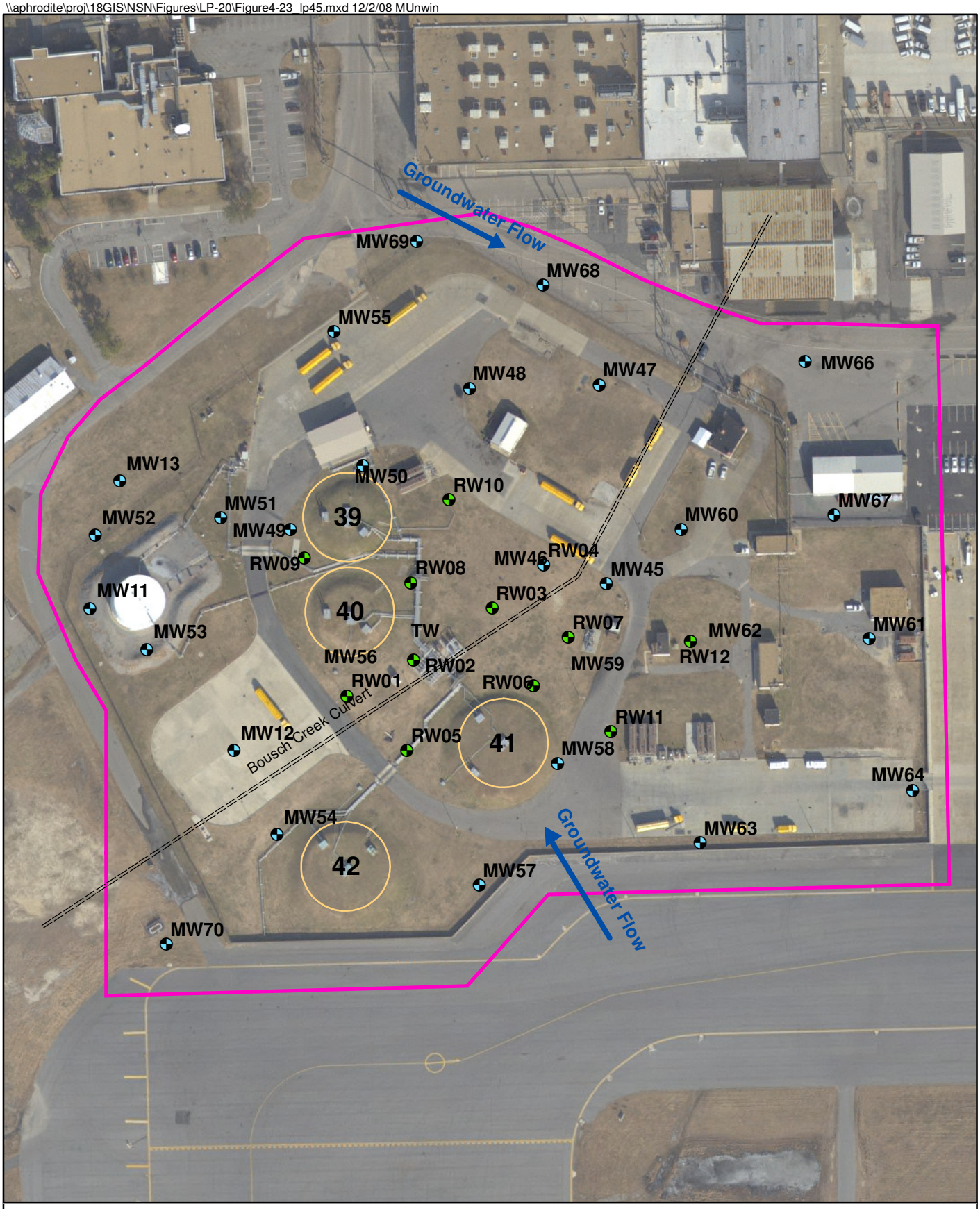

Legend

- Site Boundary
- Monitoring Well
- Recovery Well
- Tank

N
W E
S

0 75 150
Feet

Figure 4-23
LP-45
Naval Station Norfolk
Norfolk, Virginia

CH2MHILL

4.24 Building NH-95, PC# 08-5038

Building NH-95 is located at the corner of Mitscher Avenue and Ingersol Street at NSN (**Figure 3-6**). Petroleum odors and stained soil were identified during construction excavation activities conducted as part of a Building NH-95 extension project. The contamination is believed to be associated with a leaking fuel line connected to an UST containing #6 fuel oil. A site map is included as **Figure 4-24**. The UST and associated piping was removed from the ground in 1978.

Initial Abatement Report (NAVFAC, 2004b)

In October 2007, eight soil borings were installed to determine the boundaries of the contamination and if the contamination had migrated away from the source. Soil analytical data indicated the presence of TPH-DRO in all samples, ranging from 22.7 mg/kg to 10,000 mg/kg. In addition, pockets of stained soil were discovered during Building NH-95 excavation activities. Soils excavated from these pockets were visually inspected and screened with a PID to determine the presence of VOCs. All excavated soil from these pockets were removed and properly disposed of at Soilex of Chesapeake, VA.

Current Status

Based on the results of the Initial Abatement Report, the VDEQ has requested that a Limited SCR be prepared. A Work Plan has been prepared, outlining site characterization field activities, and once current construction at Building NH-95 is complete, these field activities will be completed. The Limited SCR is due to the VDEQ on January 28, 2009.

Proposed Activities for FY 2008

Site characterization field work will occur once construction activities have been completed at the site.

Optimizations/Recommendations

A SCR has not been completed for NH-95 at this time due to ongoing construction, so no optimization activities are proposed at this time.

\\aphrodite\Proj\usnavfacengcom\NSN\mapfiles\NH95\Figure 4-24 NH95.mxd 12/2/08 MUnwin

Legend

- De-watering Well Location
- Buildings

N
W E
S

0 45 90
Feet

Figure 4-24
NH95
Naval Station Norfolk
Norfolk, Virginia

CH2MHILL

4.25 Fuel Farm, PC# 88-0665

The Fuel Farm is located in the southwestern portion of NAS Oceana (**Figure 3-7**). From 1955 until 1997, jet fuel (JP-5) was stored in five, 570,000-gallon USTs at the Fuel Farm identified as F-12, F-13, F-14, F15, and F-16. All five USTs remain in place, located beneath a grass-covered, mounded area that rises approximately 15 ft above ground surface. The USTs contain a lined interior and associated piping that is cathodically protected. The site is delineated by a chain link fence that borders the area. The Fuel Farm is bordered by wooded areas along the east, north, and south sides. During operation of the fuel farm, JP-5 was pumped from the USTs through a pipeline to the Day Tank located near the jet refueling areas (Baker, 1993c). The five USTs were closed in place in July 1997. A site map, including the location of the closed USTs and existing monitoring wells, is provided as **Figure 4-25**. Depth to shallow groundwater at the site ranges from 5 ft to 20 ft bgs and flows to the southwest. The large variance in depth to groundwater is due to the mounded configuration of the site.

Tracer Soil Gas Study

This study was conducted in April 1992 and determined that USTs F-12, F-13, F-14, F-15, and F-16 were leaking (Baker, 1994a).

CAP (Baker, 1994a)

The CAP recommended free product recovery and groundwater treatment utilizing a pump and treat system. Monitoring requirements include monthly free product monitoring and quarterly groundwater monitoring for naphthalene and TPH until the remedial endpoints (0.01 ft for free product and 5,000 µg/L for naphthalene) are met for 6 months.

The pump and treat system was activated in June 1995. The 1996 annual report documented that approximately 9,000 gallons of product were removed and 3.7 million gallons of water were treated. USTs F-12, F-13, F-14, F-15, and F-16 were decommissioned in July 1997, removing the source of free product. Groundwater extraction was discontinued in 1999 when a discharge line failed. Free product recovery was continued using solar and pneumatic skimmers.

CAP Addendum (NAVFAC, 2004f)

The recommended remedial action included installation of additional product recovery skimmers, installation of recovered product piping to a nearby AST, weekly inspections of the product recovery system, and evaluation of the feasibility of installing vacuum enhanced (VE) product skimmers. Addtionally, groundwater analytical monitoring for naphthalene and TPH was reduced from quarterly to annually; the detected concentrations of naphthalene were below the remedial endpoint (5,000 µg/L) from December 2000 to May 2004.

Current Status

A pilot test was conducted in 2005 to evaluate the effectiveness of VE product skimmers. The tests were successful and in FY 2006, the Navy converted product recovery efforts at the site to VE.

Product recovery is conducted through the use of VE product skimmers, passive product skimmers, ejector pumps, and manual bailing. Monthly free product recovery and monitoring

and quarterly and annual reporting is conducted. As of the first quarter of 2008, free product was measured in 21 wells (ET-05, ET-08, 203MW-11, 203MW-12, 203MW-13, 203MW-14, 203MW-15, 203MW-16, 203MW- 17, 203MW-18, 203MW-19, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, TF-01, and TF-02) at a maximum thickness of 10.90 ft (**Figure 4-25**). To date, a total of 50,938.65 gallons of free product has been recovered through on-site remedial activities. Monthly free product recovery and monitoring and quarterly and annual reporting will continue until remedial endpoints for free product (0.01 ft) and naphthalene (5,000 µg/L) are met for 6 consecutive months.

Proposed Activities for FY 2008

Monthly free product monitoring and recovery and annual groundwater analytical monitoring will be conducted.

Optimizations/Recommendations

Hydraulic conductivity at the site is approximately 10^{-3} cm/s. Free product recovery is completed using skimming and AFVR. Measurable free product has been detected in 21 wells at thicknesses up to 11 ft. Between 300 and 800 gallons of fuel per quarter are being recovered using these methods. Recovery efforts should continue as long as significant LNAPL volume (i.e., at least 10-20 gallons per month) is maintained. Once free product recovery is no longer resulting in removal of substantial amounts of product, installation of in well aeration systems is recommended to encourage in situ biological degradation.

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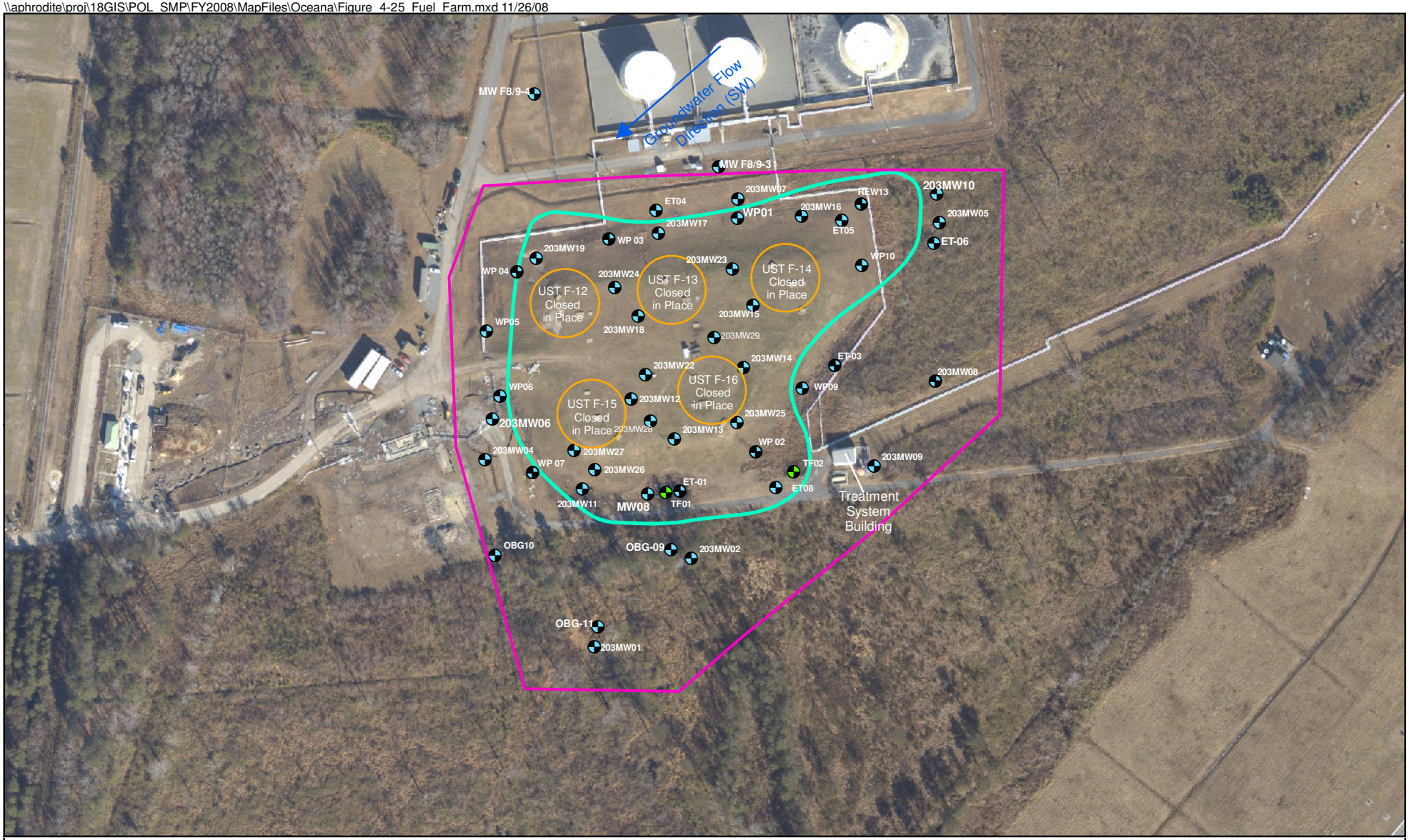

Legend

- Site Boundary
- Monitoring Well
- Recovery Well
- Free Product Plume (March 2008)

N
W E
S

0 100 200
Feet

Figure 4-25
Fuel Farm
NAS Oceana
Virginia Beach, Virginia

CH2MHILL

4.26 5th Street, PC# 92-0256

The 5th Street Fuel Truck Loading Area, located in the southwest quadrant of NAS Oceana (**Figure 3-7**), is bounded on the north, east, and west by residential and light industrial areas and by farm land to the south. The facility is currently active and is utilized for storage of used JP-5 jet fuel. According to NAS Oceana records, the facility originally stored JP-4 jet fuel. The 5th Street Fuel Truck Loading Area UST system originally consisted of five 5,000-gallon capacity USTs and associated distribution supply lines over a 2-acre site: UST F-53, UST F-53A, and USTs F-54 A, B, and C. A reported surface release of JP-5 fuel occurred at the site on August 4, 1991 in the vicinity of UST F-54A. The surface release encompassed an area approximately 50 by 70 ft, and extended to a depth of 2 ft bgs. A site map, including the location of the USTs, distribution lines, and existing monitoring wells, is provided as **Figure 4-26**. Depth to groundwater ranges from 6 to 8 ft bgs and flows to the south-southeast.

SCR (Baker, 1993d)

The site assessment included installation of monitoring wells and soil and groundwater sampling. The SCR indicated that elevated levels of TPH and BTEX in subsurface soil and groundwater were present in the vicinity of USTs F-54A, 54B, and 54C and the truck loading area adjacent to the USTs. Free product was detected in four site monitoring wells. The risk assessment identified no unacceptable risks to human health or the environment based on existing site conditions and land use. The remediation assessment recommended recovery of free product using a series of interceptor trenches downgradient of the free product plume and treatment of soils excavated during installation of the trenches using low temperature thermal reduction.

CAP (Baker, 1993f)

Consistent with the SCR, the corrective action included installation of an interceptor trench with two dual phase pumps for recovering groundwater and free phase product. Any excavated soils were to be treated thermally and disposed. Quarterly sampling and analysis of groundwater for TPH is required. Monthly product thickness measurements are required until the remedial endpoint of 0.01 ft of free product is achieved for 6 consecutive months.

Underground Storage Closure Report (Omega, 1995)

In July 1995, two of the site USTs, F-53 and F-54A and associated vent and product lines were removed. TPH and BTEX were detected in soil samples collected at the base of the excavated tanks. Some soils were removed and disposed of at an offsite facility.

CAP (Baker, 1996)

The 1993 CAP was resubmitted indicating that groundwater recovered in the proposed interceptor trenches would be pumped to a treatment plant also receiving contaminated water from the FITWING (Section 4.27) and EM Loop (Section 4.28) sites.

Iron and Drainage Ditch Investigation (McClaren/Hart, Inc., 1998)

This investigation was completed in order to investigate sources of iron to NAS Oceana surface water drainage ditches that contribute flow to Virginia Pollutant Discharge Elimination System (VPDES) Outfall 001. The 5th Street groundwater treatment plant was

listed as a potential source of iron, however, the report concluded that it had no discernable effect on iron concentrations detected at Outfall 001.

Current Status

Product is recovered through the use of solar skimmers, a recovery system, manual hand bailing, and periodic AFVR events. Monthly free product recovery and monitoring, quarterly sampling, and quarterly reporting is conducted. As of the first quarter of 2008, free product was measured in 21 wells (MW-06, MW-17, MW-22, MW-23, MW-24, and MW-25) at a maximum thickness of 1.05 ft (**Figure 4-26**). To date, a total of 11,213.89 gallons of free product has been recovered through remedial activities conducted at the 5th Street, FITWING, and EM Loop Sites. Monthly free product recovery and monitoring, quarterly groundwater sampling, and quarterly reporting will continue until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months.

Proposed Activities for FY 2008

Monthly free product monitoring and recovery and annual groundwater analytical monitoring

Optimizations/Recommendations

Due to the close vicinity and similar site characteristics of the 5th Street, FITWING, and EM Loop sites, the recommendations for optimization of product removal were evaluated simultaneously. Lithology at the 5th Street, FITWING, and EM Loop sites consists of silt, clay, and sand. Hydraulic conductivity at the sites is between 10^{-2} and 10^{-3} cm/s. Free product is currently recovered using solar skimmers, hand bailing, and AFVR events. Total product recovered for all three sites has been less than 40 gallons per quarter for the past five quarters. Free product at the sites has been greater than 1 ft in one or more wells during the first quarter of 2008. Because physical recovery is not resulting in removal of substantial amounts of product, it is recommended that measures be taken to condition the aquifer to enhance biodegradation of contaminants. This could be completed through addition of nitrate/nutrient amendments or addition of an oxygen source such as ORC. Capital costs associated with this treatment are estimated to be $120,000 to $150,000.

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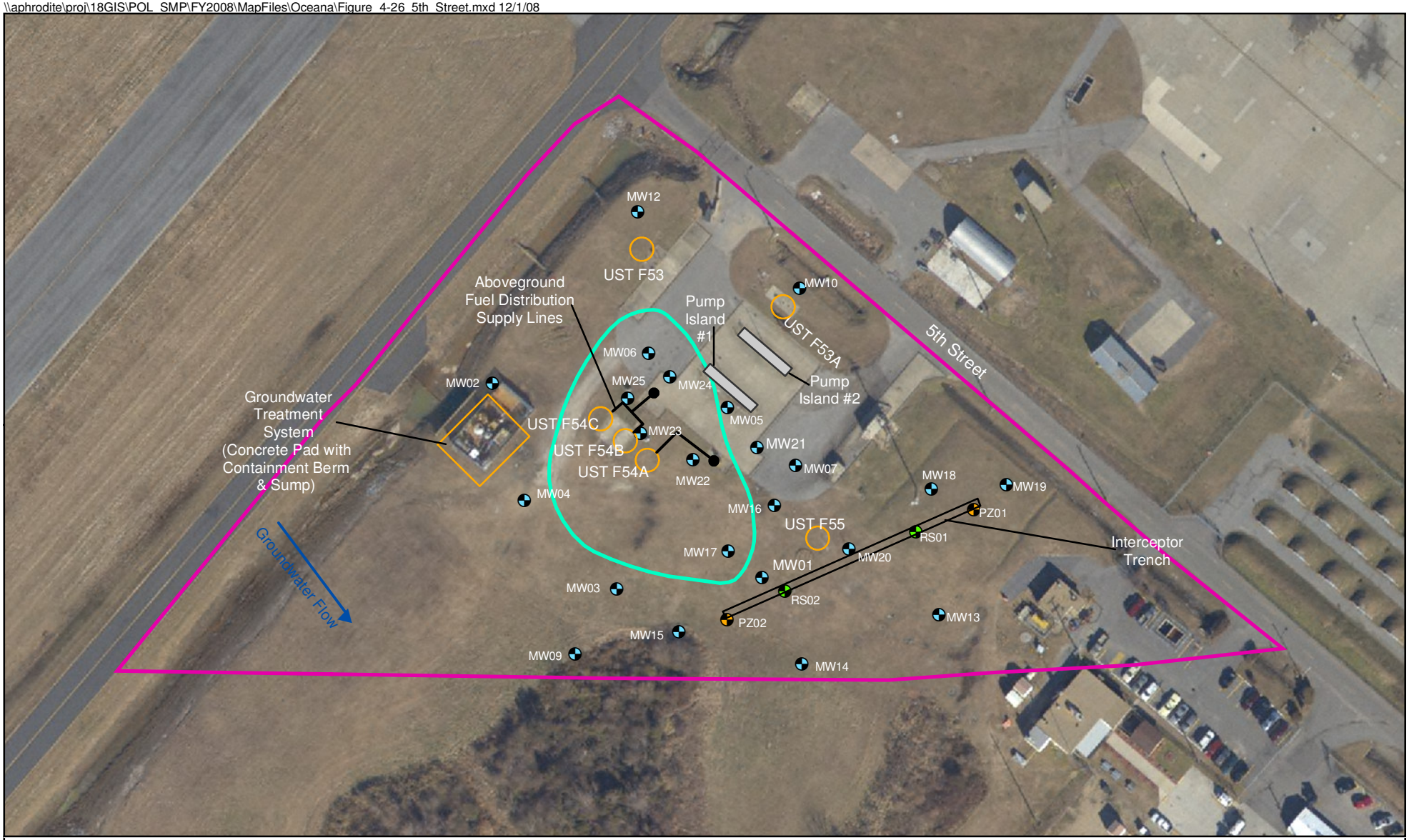


Legend

- Monitoring Well
- Piezometer
- Recovery Well
- Free Product Plume (March 2008)
- Site Boundary

N
W E
S

0 50 100
Feet

Figure 4-26
5th Street
NAS Oceana
Virginia Beach, Virginia

CH2MHILL

4.27 FITWING, PC#92-1527

The FITWING Fuel Pits were installed in the 1950s as high speed refueling pits. The FITWING Fuel Pits are located between 5th Street and the Day Tank along the taxiway to Runway 5 (**Figure 3-7**). The area includes six refueling pits separated by grassy medians that extend northeasterly to a length of approximately 2,400 ft. In July 1989, an investigation was conducted to confirm reported fuel line leaks; elevated soil concentrations of TPH were detected. A site map, including the location of the fuel pits, the abandoned pipeline, and existing monitoring wells, is provided as **Figure 4-27**. The depth to shallow groundwater ranges from between 4 to 6 ft bgs and flows to the southwest.

SCR (Roy F. Weston, Inc., 1992a)

The site assessment included installation of monitoring wells, soil and groundwater sampling and analysis, pump testing, and hydraulic conductivity testing. The SCR identified two distinct hydrocarbon plumes resulting from two separate fuel line leaks. Free product was measured at thicknesses of up to 9 ft and TPH was detected. The risk assessment did not identify any unacceptable risk to human health or the environment based on existing site conditions. The remediation assessment recommended a free product recovery system consisting of recovery wells and skimmers and a groundwater treatment system consisting of an OWS and air stripper.

CAP (Roy F. Weston, Inc., 1994)

Consistent with the SCR, the corrective action included installation of a product recovery system consisting of a water table depression system and skimmers and a groundwater treatment system consisting of an OWS and air stripper. Remedial endpoints were identified as less than 0.01 ft of product in monitoring wells, 500 mg/kg of TPH in soils at RW01, 10 mg/L of TPH in groundwater, and 100 ppm of TPH in soil vapor (well casings). Monitoring requirements consist of monthly free product measurements, quarterly groundwater sampling for TPH, and annual soil and vapor sampling for TPH until the remedial endpoints have been met for 6 consecutive months.

Current Status

Product is recovered through the use of a recovery system, manual hand bailing, and periodic AFVR events. Monthly free product recovery and monitoring and quarterly and annual reporting is conducted. As of the first quarter of 2008, free product was measured in five wells (RW-05, RW-06, MW-01, MW-02, and EMW-07) at a maximum thickness of 2.73 ft (**Figure 4-27**). To date, a total of 11,213.89 gallons of free product has been recovered through remedial activities conducted at the 5th Street, FITWING, and EM Loop Sites. Monthly free product recovery and monitoring and quarterly and annual reporting will continue until the remedial endpoints for free product (0.01 ft) and TPH [10,000 µg/L (groundwater and vapor), 100 mg/kg (soil)],) are met for 6 consecutive months.

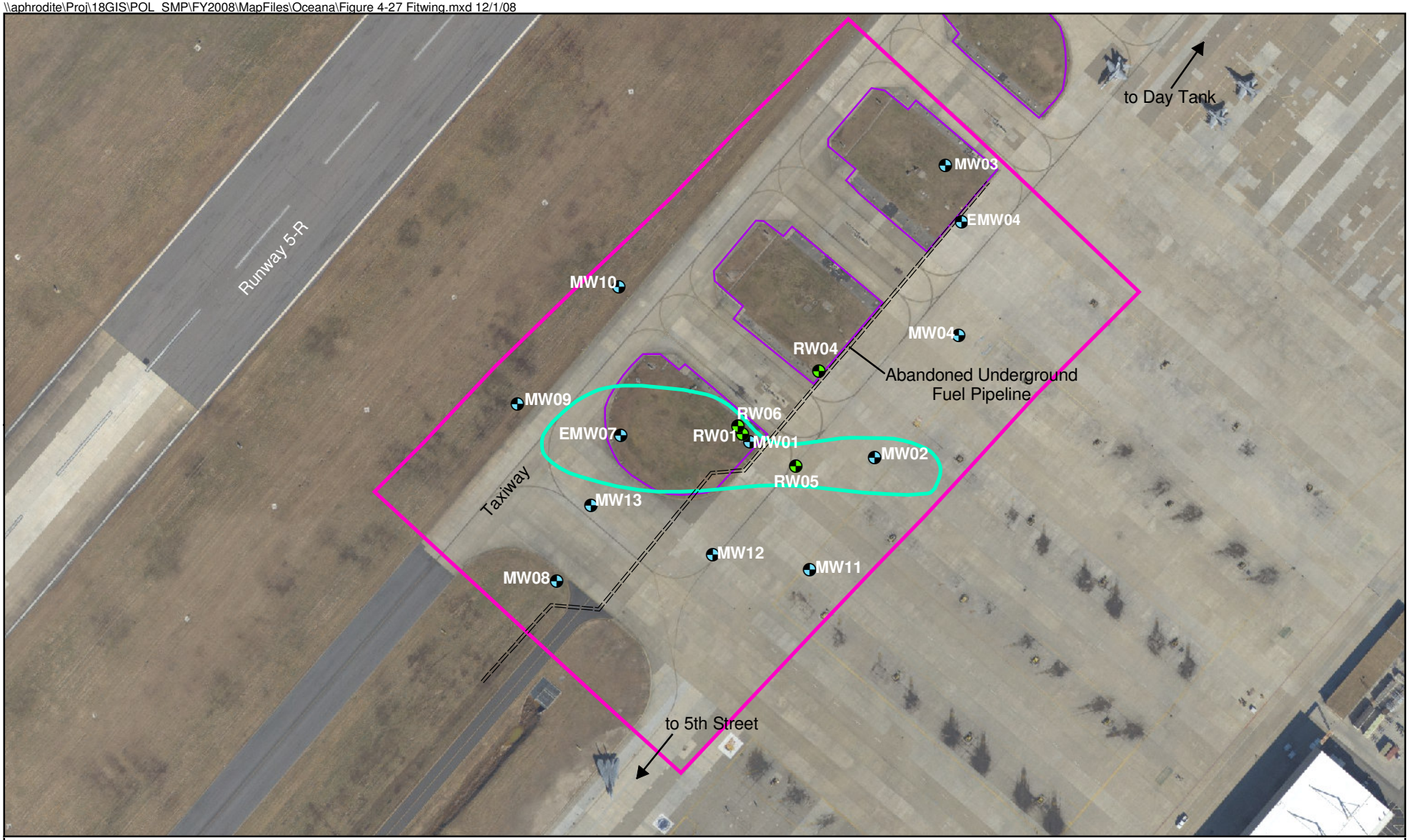
Proposed Activities for FY 2008

Monthly free product monitoring and recovery, quarterly groundwater analytical monitoring, annual soil and vapor analytical monitoring, and quarterly and annual reporting will continue in FY 2008.

Optimizations/Recommendations

Due to the close vicinity and similar site characterisitics of the 5th Street, FITWING, and EM Loop sites, the recommendations for optimization of product removal were evaluated simultaneously. Lithology at the 5th Street, FITWING, and EM Loop sites consists of silt, clay, and sand. Hydraulic conductivity at the sites is between 10^{-2} and 10^{-3} cm/s. Free product is currently being recovered using solar skimmers, hand bailing, and AFVR events. Total product recovered for all three sites has been less than 40 gallons per quarter for the past five quarters. Free product at the sites has been greater than 1 ft in one or more wells during the first quarter of 2008. Because physical recovery is not resulting in removal of substantial amounts of product, it is recommended that measures be taken to condition the aquifer to enhance biodegradation of contaminants. This could be completed through addition of nitrate/nutrient amendments or addition of an oxygen source such as ORC. Capital costs associated with this treatment are estimated to be $120,000 to $150,000.

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\Oceana\Figure 4-27 Fitwing.mxd 12/1/08



Legend

- Monitoring Well
- Recovery Well
- Free Product Plume (March 2008)
- Site Boundary
- Fuel Pit

N
W E
S

0 100 200
Feet

Figure 4-27
FITWING
NAS Oceana
Virginia Beach, Virginia

CH2MHILL

4.28 EM Loop, PC# 92-1727

The emergency fuel loop pipeline (EM Loop) is approximately 2,500 ft long and located between the Fuel Farm and 5th Street (**Figure 3-7**). The loop consists of two parallel pipelines that lie in the same trench. The underground pipelines run through a wooded area to the southwest, turn and pass beneath the south end of Runway 5L, and continue across Runway 5R and the taxiway to terminate at 5th Street. According to activity personnel, the pipelines were installed in the 1950s. In 1984, between 80,000 and 150,000 gallons of jet fuel was reported to have leaked from one of the pipelines. Repairs were subsequently made and in 1986 both fuel lines were abandoned to prevent further leaks. Although the fuel lines were abandoned, the pipelines had reportedly not been drained. A site map, including the location of the pipeline and existing monitoring wells, is provided as **Figure 4-28**. Shallow groundwater is typically encountered between 2 and 5 ft bgs and flows in a south-southeast direction.

SCR (Roy F. Weston, Inc., 1993)

The site assessment included installation of monitoring wells and soil and groundwater sampling and analysis. Results indicated the presence of TPH in soil and free product, TPH, and BTEX in groundwater. No unacceptable risks were identified based on existing site conditions and land use. The remediation assessment recommended the installation of a product skimming and water table depression system in addition to treatment of pumped groundwater using an OWS and air stripper system.

CAP (Roy F. Weston, Inc., 1994)

Consistent with the remediation assessment in the SCR, the corrective action consisted of installation of a water table depression system, skimmers, and a groundwater treatment system with an oil/water separator and air stripper. Remedial endpoints were identified as 0.01 ft of free product, 3,780 mg/kg of TPH in soils, and 84,000 µg/L of TPH in groundwater. The CAP required monthly monitoring well gauging and free product thickness measurements and quarterly monitoring of groundwater for TPH until the remedial endpoints have been met for 6 consecutive months.

Current Status

Product is recovered through manual hand bailing, and periodic AFVR events. Monthly free product recovery and monitoring and quarterly reporting is conducted. As of the first quarter of 2008, free product was detected in RW01 and MW02 at a maximum thickness of 3.39 ft (**Figure 4-28**). To date, a total of 11,213.89 gallons of free product has been recovered through remedial activities conducted at the 5th Street, FITWING, and EM Loop Sites. Monthly free product recovery and monitoring and quarterly reporting will continue until the remedial endpoints for free product (0.01 ft) and TPH (84,000 µg/L in groundwater and 3,780 mg/kg in soil) are met for 6 consecutive months.

Proposed Activities for FY 2008

Monthly free product monitoring and recovery, quarterly groundwater analytical monitoring, and quarterly reporting will continue in FY 2008.

Optimizations/Recommendations

Due to the close vicinity and similar site characterisitics of the 5th Street, FITWING, and EM Loop sites, the recommendations for optimization of product removal were evaluated simultaneously. Lithology at the 5th Street, FITWING, and EM Loop sites consists of silt, clay, and sand. Hydraulic conductivity at the sites is between 10^{-2} and 10^{-3} cm/s. Free product is currently being recovered using solar skimmers, hand bailing, and AFVR events. Total product recovered for all three sites has been less than 40 gallons per quarter for the past five quarters. Free product at the sites has been greater than 1 ft in one or more wells during the first quarter of 2008. Because physical recovery is not resulting in removal of substantial amounts of product, it is recommended that measures be taken to condition the aquifer to enhance biodegradation of contaminants. This could be completed through addition of nitrate/nutrient amendments or addition of an oxygen source such as ORC. Capital costs associated with this treatment are estimated to be $120,000 to $150,000.

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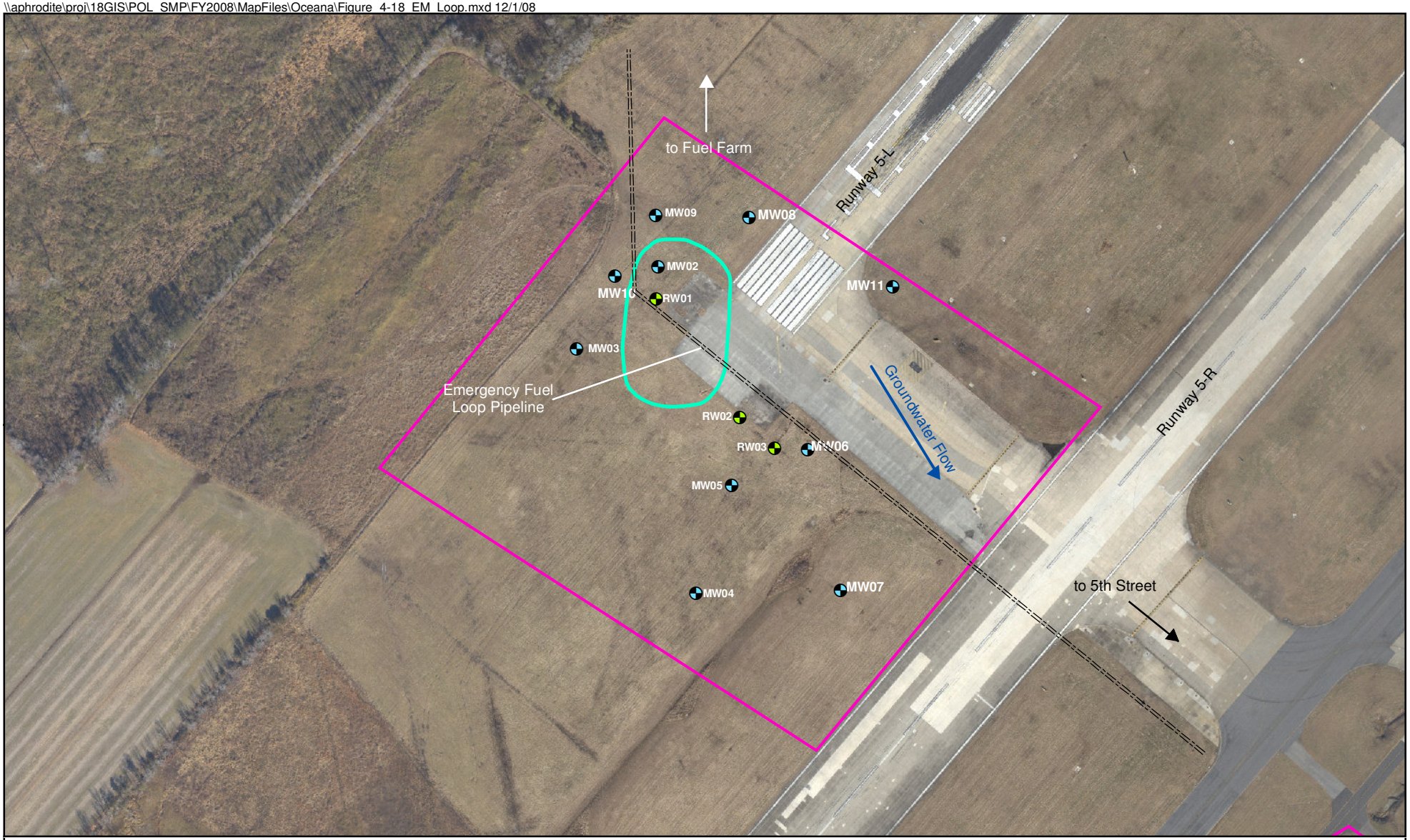


Legend

- Monitoring Well
- Recovery Well
- Free Product Plume (February 2008)
- Site Boundary

N
W E
S

0 125 250
Feet

Figure 4-28
EM Loop
NAS Oceana
Virginia Beach, Virginia

CH2MHILL

4.29 MATWING, PC# 92-2142

The MATWING site is located adjacent to the southeastern end of an aircraft taxiway for Runway 32L (**Figure 3-7**). In 1964, two high-speed refueling stations, including the MATWING Rapid Refueling Area, were installed near Hanger 122. MATWING consists of four concrete refueling pits or lanes (Nos. 7 through 10) that are approximately 95 ft wide and 170 ft long. These refueling pits are separated by grass islands that are approximately 150 ft wide and 210 ft long. A site map, including the location of the refueling lanes and existing monitoring wells, is presented as **Figure 4-29**. Shallow groundwater is generally encountered between 3 and 5 ft bgs and flows in a north-northeast direction.

SCR (Baker, 1992a)

The site assessment included installation of monitoring wells, soil and groundwater sampling and analysis, and hydraulic conductivity testing. The results indicated the presence of TPH in soil and groundwater. Free product was detected in several site monitoring wells. No risk was identified based on existing site conditions. The remediation assessment recommended free product recovery using a product recovery trench.

CAP Amendment (Baker, 1997)

The existing CAP for the Day Tank site was amended to include a combined remediation approach for the MATWING and Day Tank sites through use of a single treatment plant. This approach was determined to be more cost effective than separate systems. The outlined corrective action was consistent with the recommended action in the SCR. The remedial endpoint established was free product recovery to a thickness of less than 0.01 ft.

Correction Action Plan Amendment (NAVFAC, 1999)

The CAP was modified to include free product recovery by skimmers only and abandonment of the groundwater treatment approach.

Current Status

Product is recovered through the use of a skimmer system, manual hand bailing, and periodic AFVR events. Monthly free product recovery and monitoring and quarterly reporting is conducted. As of the first quarter of 2008, free product was measured in nine wells (RW-01, RW-02, MW-02A, MW-04A, MW-05, MW-05A, MW-06A, PZ-01, and PZ-02) at a maximum thickness of 0.02 ft (**Figure 4-29**). To date, a total of 359.28 gallons of free product has been recovered through remedial activities conducted at the MATWING and Day Tank sites. Monthly free product recovery and monitoring and quarterly reporting will continue until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months.

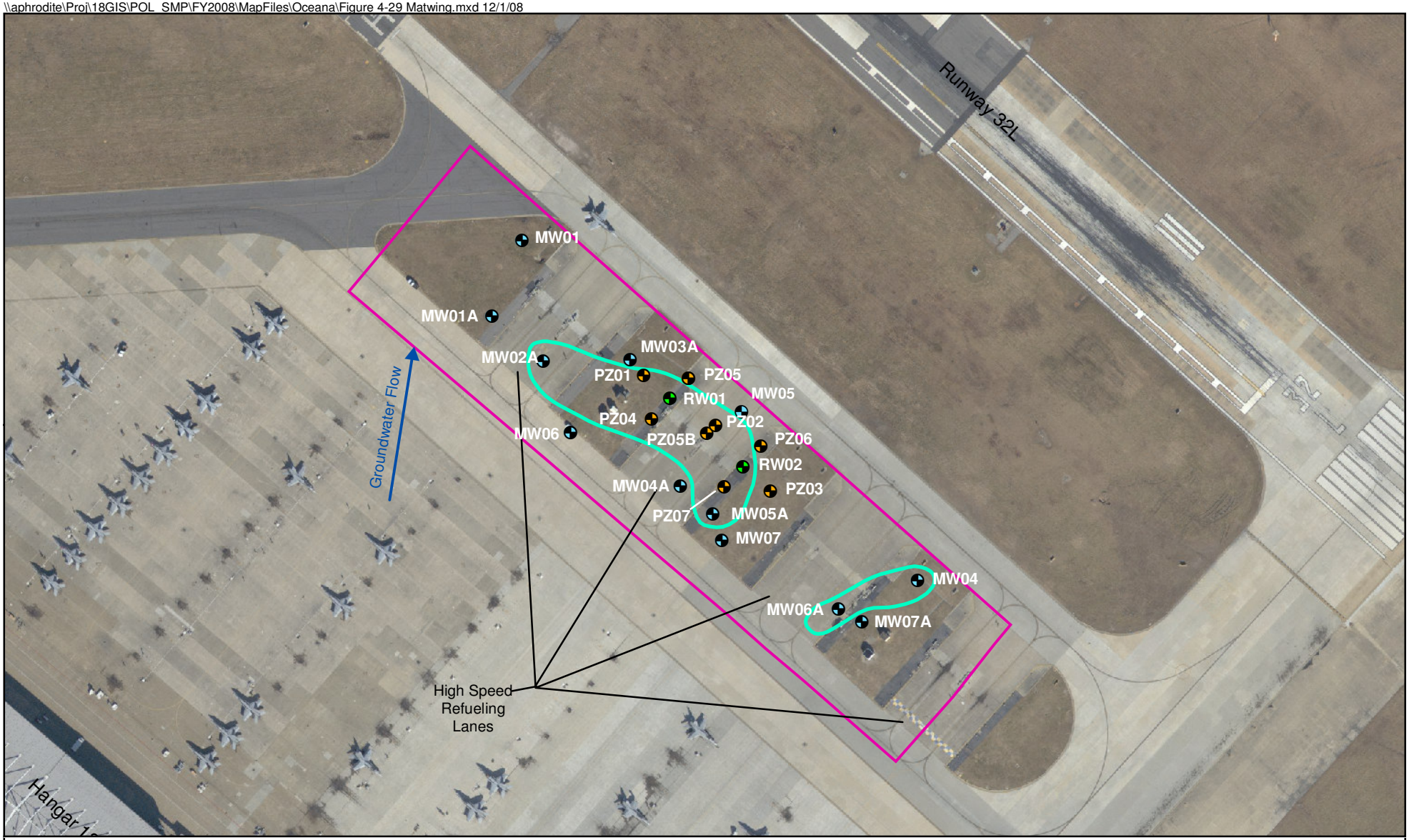
Proposed Activities for FY 2008

Monthly free product monitoring and recovery and quarterly reporting will continue in FY 2008.

Optimizations/Recommendations

Due to the close vicinity and similar site characterisitics of the MATWING and Day Tank sites, the recommendations for optimization of product removal were evaluated simultaneously Lithology at the MATWING and Day Tank sites consists of clay, silt and fine sand. Hydraulic conductivity at the sites is approximately 10^{-3} cm/s. Free product recovery is conducted with manual bailing, skimmers, and AFVR events. The maximum free product thickness at the sites is 0.02 ft. Approximately 1 gallon of product is currently being recovered each quarter. Product remaining at these sites appears to be residual in nature and is unlikely to be recovered in significant quantities using physical recovery methods. Nitrate enhancement or addition of oxygen via installation of an air sparging system or injection of ORC® should be considered to facilitate biodegradation. Costs associated with nitrate amendments are estimated to be $50,000 per year. Costs associated with installation of a biosparging system are between $500,000 and $1,000,000.

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\Oceana\Figure 4-29 Matwing.mxd 12/1/08



Legend

- Monitoring Well
- Piezometer
- Recovery Well
- Free Product Plume (March 2008)
- Site Boundary

N
W E
S

0 100 200
Feet

Figure 4-29
MATWING
NAS Oceana
Virginia Beach, Virginia

CH2MHILL

4.30 Day Tank, PC# 88-0666 and 93-0077

The Day Tank, located southeast of the taxiway and north of SWMU 2E (**Figure 3-7**), is a 210,000-gallon tank installed in 1952. The Day Tank receives JP-5 jet fuel transported by a pipeline from the fuel farm and distributes the fuel to the refueling lanes along the taxiways for both FITWING and MATWING areas. This tank has a history of leaks and spills; an 80,000-gallon overfill was reported in the 1960s, as well as substantial overfills reported in 1979 and 1981. Leaks have also been detected in the subsurface fuel evacuation lines from the refueling pits, which may have occurred between 1982 and 1983. A site map, including the location of the Day Tank and existing monitoring wells, is provided as **Figure 4-30**. Shallow groundwater is generally encountered between 3 and 5 ft bgs and flows in a north-northeast direction.

Draft SCR (Roy F. Weston, Inc., 1992b)

The site assessment included installation of monitoring wells, soil and groundwater sampling and analysis, and hydraulic conductivity testing. The results indicated the presence of TPH in soil and benzene, naphthalene, and free product in groundwater. No unacceptable risks were identified in the risk assessment based on existing land use and site conditions.

CAP (Baker, 1994b)

The corrective action for the site included installation of a groundwater depression system and product recovery system using recovery wells, trenches, and skimmers in addition to a treatment system for the removal of benzene, naphthalene, and other dissolved phase contaminants. The remedial endpoint identified was less than 0.01 ft of free product. Monitoring requirements included monthly free product thickness measurements and quarterly sampling for TPH until the remedial endpoint for free product is met for 6 months.

CAP Amendment (Baker, 1997)

The existing CAP for the Day Tank site was amended to include a combined remediation approach for the MATWING and Day Tank sites through use of a single treatment plant. This approach was determined to be more cost effective than separate systems. The outlined corrective action was free product recovery using a product recovery trench.

Correction Action Plan Amendment (NAVFAC, 1999)

The CAP was modified to include free product recovery by skimmers only and abandonment of the groundwater treatment approach.

Current Status

Product is recovered through the use of a skimmer system, manual hand bailing, and periodic AFVR events. Monthly free product recovery and monitoring and quarterly reporting is conducted. As of the first quarter of 2008, free product was measured in three wells (RW01, MW14, and DT04) at a maximum thickness of 0.09 ft (**Figure 4-30**). To date, a total of 359.28 gallons of free product has been recovered through remedial activities conducted at the MATWING and Day Tank sites. Monthly free product recovery and monitoring and quarterly reporting will continue until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months.

Proposed Activities for FY 2008

Monthly free product monitoring and recovery and quarterly reporting will continue in FY 2008.

Optimizations/Recommendations

Due to the close vicinity and similar site characterisitics of the MATWING and Day Tank sites, the recommendations for optimization of product removal were evaluated simultaneously. Lithology at the MATWING and Day Tank sites consists of clay, silt and fine sand. Hydraulic conductivity at the sites is approximately 10^{-3} cm/s. Free product recovery is conducted with manual bailing, skimmers, and AFVR events. The maximum free product thickness at the sites is 0.02 ft. Approximately 1 gallon of product is currently being recovered each quarter. Product remaining at these sites appears to be residual in nature and is unlikely to be recovered in significant quantities using physical recovery methods. Nitrate enhancement or addition of oxygen via installation of an air sparging system or injection of ORC® should be considered to facilitate biodegradation. Costs associated with nitrate amendments are estimated to be $50,000 per year. Costs associated with installation of a biosparging system are between $500,000 and $1,000,000.

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Legend

- Monitoring Well
- Recovery Well
- Site Boundary
- Free Product Plume (March 2008)

N
W E
S

0 65 130
Feet

Figure 4-30
Day Tank
NAS Oceana
Virginia Beach, Virginia

CH2MHILL

4.31 T-Line, PC# 88-0804

JP-5 fuel from the Fuel Farm is transferred to the Day Tank via the Transmission Line (T-Line) (**Figure 3-7**). In March 1988, a leak was discovered in a portion of the underground T-Line approximately 800 ft east of the Fuel Farm site. The leak was repaired and investigations were initiated. In September 1990, a surface release of JP-5 between the Fuel Farm and Day Tank occurred as a result of a construction accident. Approximately 25,000 gallons of fuel were estimated to have leaked and approximately 22,500 gallons were recovered. A site map, including the location of the above ground pipes and existing monitoring wells, is provided as **Figure 4-31**. The shallow groundwater flows in a westerly direction.

CAP (O'Brien and Gere, 1994a)

A site assessment was conducted to support development of the CAP. Activities included monitoring well installation and groundwater and soil sampling and analysis. The results indicated the presence of TPH in soil and free product, TPH, and naphthalene in groundwater. The risk assessment indicated that there was no immediate risk to human health. The corrective action recommended was free product removal via interceptor trenches and soil remediation via aerobic bioremediation. The remedial endpoints established were reduction of free product to less than 0.01 ft, reduction of naphthalene concentrations to below 62 µg/L, and reduction of soil TPH concentrations to 100 mg/kg until the free product endpoint is met for 6 consecutive months.

The groundwater extraction and treatment system consisting of six interceptor trenches was constructed in 1995. The system operated for 84 days before shutting down due to iron fouling of the system components. Soil was remedied through an in situ bioventing system.

Evaluation of the T-Line POL Remediation System (McClaren/Hart, Inc., 1999)

Evaluation of the remedial system revealed a decrease in plume size due to natural attenuation and intrinsic biodegradation. It was recommended that the active remediation be stopped permanently and monitored attenuation be accepted as the preferred alternative.

CAP Amendment (NAVFAC, 2000b)

The corrective action was amended to product recovery by solar skimming and natural attenuation and to discontinue annual soil monitoring for TPH.

Current Status

Product is recovered through the use of a skimmer system and manual hand bailing. Monthly free product recovery and monitoring and quarterly reporting is conducted. As of the first quarter of 2008, free product was measured in seven wells (OBG-17, OBG-8, TL-2, TL-3, TL-4, TL-6, and TL-7) at a maximum thickness of 2.24 ft (**Figure 4-31**). Between 1991 and March 2008, approximately 254 gallons of free product has been recovered through remedial activities. Monthly free product recovery and monitoring and quarterly reporting will continue until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months.

Proposed Activities for FY 2008

Monthly free product monitoring and recovery, quarterly groundwater analytical monitoring, and quarterly reporting will continue in FY 2008.

Optimizations/Recommendations

Lithology in the vicinity of the T-Line area consists of 3 to 5 ft of clay, silt, and silty sand overlying medium to coarse grained clean sand. Hydraulic conductivity at the site is approximately 10^{-2} cm/s. Product has been detected on seven wells during recent events at thicknesses of up to 2.24 ft. Free product recovery is currently being conducted using bailing, passive skimming, and AFVR. An average of about 1 gallon per month is being recovered at the site. Nitrate enhancement or addition of an oxygen source such as ORC® should be considered to facilitate biodegradation. Costs associated with nitrate flushing are estimated to be $50,000 per year.

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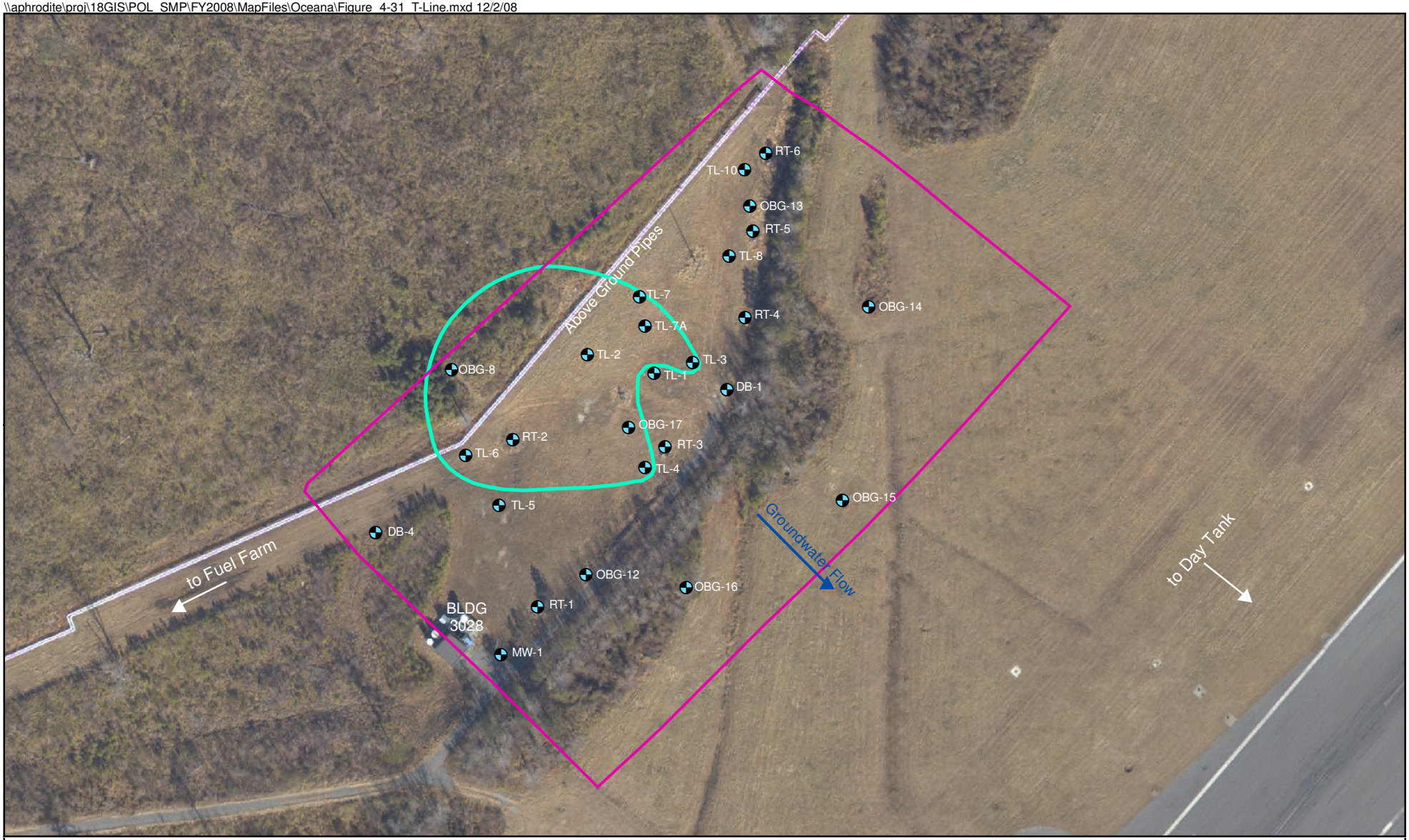

Legend

- Monitoring Well
- Free Product Plume (March 2008)
- Site Boundary

Monitoring Wells TL-7A and RT-2 are not in the Quarterly Monitoring Well Network

N
W E
S

0 60 120
Feet

Figure 4-31
T-Line
NAS Oceana
Virginia Beach, Virginia

CH2MHILL

4.32 SWMU 2E, PC# 94-0423

Solid Waste Management Unit (SWMU) 2E was identified during an Initial Assessment Study (RGH, 1984) at NAS Oceana as a location where waste chemicals from cleaning and maintenance activities were disposed (**Figure 3-7**). These wastes potentially included oil, PD 680, aromatic hydrocarbons, and hydraulic fluid. Historical reports indicate that a a POL disposal area is located on the ground behind Line Shack 109 along the flight line fence. Waste oil was also reportedly funneled into an electric manhole near Line Shack 109. Due to the presence of chlorinated VOCs at the site, SWMU 2E is currently being evaluated under CERCLA via a RCRA consent order. However, during CERLCA investigations, virgin diesel fuel from an unknown source was detected in some of the monitoring wells. This portion of the site contained no CERCLA-related contaminants, and was consequently transferred to the POL program. A site map, including the location of the existing monitoring wells, is provided as **Figure 4-32**. The shallow groundwater is located between 5 and 6 ft bgs and flows toward the southwest.

Phase I RCRA Facility Investigation, (CH2M HILL, 1993)

While collecting water level measurements during the RCRA Facility Investigation (RFI), field personnel discovered a 7 ft thick layer of free product in monitoring well MW-1, later determined to be diesel fuel. The report recommended removal of free product and sampling of additional monitoring wells downgradient of MW-1. The recommended activities were determined to be accomplished under the UST program rather than RCRA.

Current Status

Product is recovered through manual hand bailing and periodic AFVR events. Monthly free product recovery and monitoring and quarterly reporting is conducted. As of the first quarter of 2008, free product was measured in three wells (MW1, MW4, and MW8) at a maximum thickness of 0.30 ft (**Figure 4-32**). Since 2003, a total of 65 gallons of free product has been recovered through manual bailing activities. Monthly free product recovery and monitoring and quarterly reporting will continue until the remedial endpoint for free product (0.01 ft) is met for 6 consecutive months.

Proposed Activities for FY 2008

Monthly free product monitoring and recovery and quarterly reporting will continue in FY 2008.

Optimizations/Recommendations

Lithology in the vicinity of SWMU 2E consists of silt, clay, and fine sand to a depth of approximately 7 ft bgs underlain by clean sand. Hydraulic conductivity is approximately 10^{-2} cm/s. Manual bailing is the only form of product recovery utilized at this time; 0.1 to 0.5 gallons of free product are recovered each month. Free product remains on three wells at thicknesses of up to 0.3 ft. More aggressive physical removal approaches should be considered such as use of skimmers or AFVR. If these physical removal approaches are not effective in recovery of higher volumes of product, nitrate flushing or addition of an oxygen source should be considered to facilitate biodegradation.

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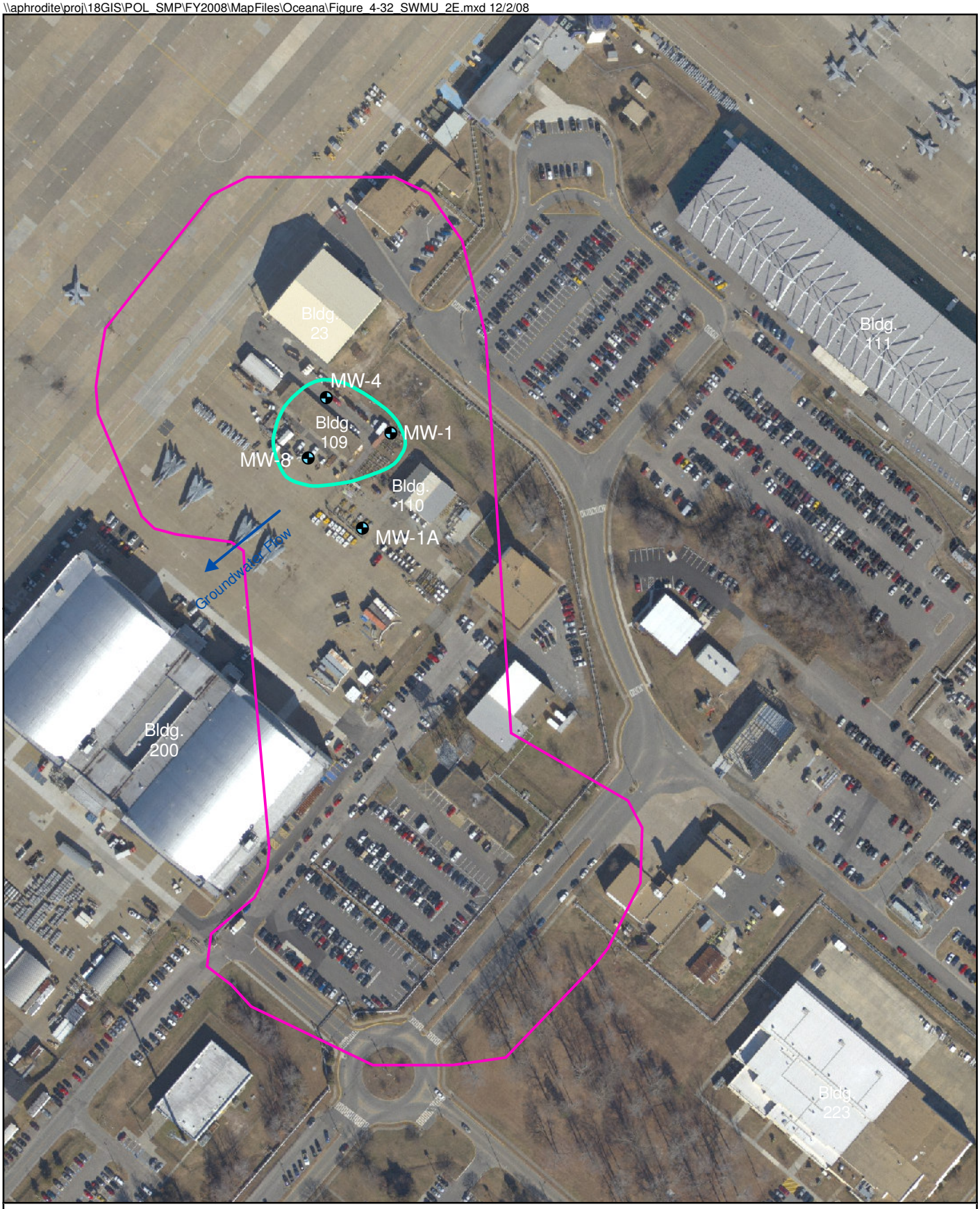

Legend
- Monitoring Well
- Site Boundary
- Free Product Plume (March 2008)

N
W E
S

0 100 200
Feet

Figure 4-32
SWMU 2E
NAS Oceana
Virginia Beach, Virginia

CH2MHILL

4.33 UST 3003A, PC# 93-0804

Building 3003 is located to the west of the runways within NAS Oceana in a predominantly residential area (**Figure 3-7**). The building serves as a reference point for naval aircrafts by producing signals transmitted through the radar tower. A former 275-gallon UST was used to supply fuel oil to an emergency generator in Building 3003. Stained soil was observed in June 1993 following the removal of the UST. The site currently contains two 275-gallon fuel oil tanks west of Building 3003, which replaced the UST. A site map, including the location of the former and existing tanks and existing monitoring wells, is provided as **Figure 4-33**. Depth to shallow groundwater is approximately 6 ft bgs and flows toward the west-southwest.

SCR (ES&E, 1994a)

The site assessment included installation of monitoring wells and soil and groundwater sampling and analysis. The results indicated the presence of TPH in soil and free product and BTEX in groundwater. No unacceptable risk was identified at the site based on existing land use and site conditions. The remediation assessment recommended excavation of site soils with concurrent fluid extraction.

Current Status

Product is recovered through manual hand bailing, and periodic AFVR events. Monthly free product recovery and monitoring and quarterly reporting is conducted. As of the first quarter of 2008, free product was measured in three wells (MW1, MW-3 and MW4) at a maximum thickness of 2.16 ft (**Figure 4-33**). Since 2003, a total of 150 gallons of free product has been recovered through remedial activities. Monthly free product recovery and monitoring and quarterly reporting will continue until the remedial endpoints for free product (0.01 ft), benzene (1,000 µg/L), toluene (3,000 µg/L), ethylbenzene (1,400 µg/L), and total xylenes (15,000 µg/L) are met for 6 consecutive months.

Proposed Activities for FY 2008

Monthly free product monitoring and recovery and quarterly reporting will continue in FY 2008.

Optimizations/Recommendations

Lithology in the vicinity of UST 3003A consists primarily of fine sand. The hydraulic conductivity at the site is approximately 10^{-2} cm/sec. Free product removal is conducted through manual bailing and AFVR. Between 2 and 15 gallons are being recovered each quarter. In March 2008, free product was detected on three wells at a maximum thickness of 2.16 ft. Because remedial endpoints for benzene and TPH have been established, it is recommended that an air sparging system be considered for this site. Costs associated with the air sparging system installation are estimated to be $300,000.

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Legend

- Monitoring Well
- Free Product Plume March 2008
- Site Boundary

N
W E
S

0 40 80
Feet

Figure 4-33
UST 3003A
NAS Oceana
Virginia Beach, Virginia

CH2MHILL

4.34 Jet Test Cell, PC# 04-5104

The Jet Test Cell is located in the southeastern portion of NAS Oceana (**Figure 3-7**). The site includes several buildings for conducting jet engine tests. JP-5 jet fuel is supplied to each of the test buildings by a series of above ground and underground piping connected to a pair of 20,000 gallon USTs located on site. Tank OC-1104-UST-01 (also 1100A) is constructed of single-walled reinforced plastic and was installed in 1986. Tank OC-1104-UST-03 (also 1100C) is constructed of double-walled reinforced plastic and was installed in 1993. The tanks and the above ground piping are located in a pea gravel bed surrounded by a security fence. Beyond the Jet Test Cell, the area is generally wooded and is characterized by low-lying elevations to drain surface water away from the base airfield.

In November 2003, one of the fuel delivery systems lost pressure during engine testing operations and was immediately shutdown. Operations personnel observed free product covering the ground at the west corner of the fenced UST area. Visible free-phase petroleum was immediately removed from the ground surface using a vacuum truck. The source of the release was identified as a cracked fitting on one of the underground fuel lines located in the west corner of the UST gravel bed. The fuel line was temporarily replaced pending permanent repairs. Following these actions, saturated surface soils along the asphalt road north of the release and outside the UST fence line were removed for off-site disposal. An Initial Abatement Measures (IAM) report identifying corrections to date was sent to VDEQ (January 2004). A site map, including the location of the USTs and existing monitoring wells, is provided as **Figure 4-34**. Shallow groundwater is encountered between 3 and 6 ft bgs and flows toward the northeast.

SCR (NAVFAC, 2004d)

This site assessment included a site survey, SCAPS data collection, installation of monitoring wells, and the collection of soil and groundwater samples for analysis. The results indicated the presence of TPH and naphthalene in soil and free product, TPH, BTEX, and naphthalene in groundwater. The findings indicated two separate releases at the site. A minimal risk was identified at the site resulting from free product at the ground surface. Recommended actions included the removal of free product pooling at the ground surface of the UST bed and located in the utility accesses and integrity testing of the USTs and associated piping. Additionally, continued monitoring was recommended through routine well and utility system inspections.

SCR Addendum (NAVFAC, 2004g)

Following the SCR, a trench was excavated in the UST gravel bed and free product was recovered via vacuum truck from the trench and from various utility accesses near the site. In July 2004, additional monitoring wells were installed to better define the extent of petroleum contamination and facilitate free product recovery. During installation of well MW-F, field crews pierced a plastic underground fuel line that was previously unmarked and unidentified. Field crews observed clean fuel percolating from the well hole and immediately notified site personnel to shutdown the system. Sorbent pads and booms were used to contain the release and a vacuum truck mobilized to recover standing water and free product. The area surrounding the breach was excavated and the line was replaced.

Current Status

Product is recovered through manual hand bailing activities. Monthly free product recovery and monitoring and quarterly reporting is conducted. As of the first quarter of 2008, free product was measured in one monitoring well (MW-H) at a thickness of 0.01 ft (**Figure 4-34**). Monthly free product recovery and monitoring and quarterly reporting will continue until the remedial endpoint for free product (0.01 ft), is met for 6 consecutive months.

Proposed Activities for FY 2008

Monthly free product monitoring and recovery and quarterly reporting will continue in FY 2008.

Optimizations/Recommendations

Lithology in the vicinity of the Jest Test Cell consists of silty sand and gravel. Hydraulic conductivity based on the soil type is estimated to be 10^{-1} cm/s. Product recovery is conducted using manual bailing and averages less than one gallon per quarter. Free product is present on the water table in one well location at a thickness of 0.01 ft. The thickness of product had decreased considerably since 2007 when 0.68 ft of product was measured in the same well. Product monitoring should continue to determine if the endpoint can be met without additional action. If free product thickness does not decline, it is recommended that an oxygen source such as RegenOx, ORC®, or BIOX® be injected to chemically destroy and/or biologically degrade the product. Costs associated with these recommened treatments are estimated to be between $20,000 and $25,000.

\\aphrodite\proj\18GIS\POL_SMP\FY2008\MapFiles\Oceana\Figure_4-34_Jet_Test_Cell.mxd 12/2/08

Legend

- Monitoring Well
- Free Product Plume (March 2008)
- Site Boundary

N
W E
S

0 40 80
Feet

Figure 4-34
Jet Test Cell
NAS Oceana
Virginia Beach, Virginia

CH2MHILL

4.35 F8/F9, PC# 03-5067

ASTs F8 and F9 are located just north of the Fuel Farm at NAS Oceana (**Figure 3-7**) for the storage of JP-5 jet fuel. AST F8 has a capacity of 939,259 gallons and AST F9 has a capacity of 937,004 gallons. AST F8 and F9 were placed in service in July 1997. A site map, including the locations of the ASTs and existing monitoring wells is presented as **Figure 4-35**. Shallow groundwater is generally encountered between 4 and 6 ft bgs and the flow direction varies due to the presence of clay lenses across the site.

SCR (NAVFAC, 2003c)

The site assessment included a site survey, collecting SCAPS data, installing monitoring wells, and collecting soil and groundwater samples for analysis. The results indicated the presence of TPH in soil and free product, TPH, and BTEX in groundwater. The risk assessment identified a low risk due to the presence of contamination in the surface soil. The remediation assessment recommended removal of the top 0.5 to 1 ft of fuel stained soil near the wet well and replacement of the wet well system. In addition, it was recommended that special efforts should be taken to ensure the clay layer just below the surface is not punctured or removed, as it would create an impermeable cover across the site.

SCR Addendum (E&E, 2004)

The SCR Addendum was completed to summarize installation of an additional monitoring well (MW-7) and removal of JP-5 contaminated soils at the surface. Free product was measured at a thickness of 1.96 ft in the new monitoring well. Soils were removed and treated at an offsite facility. Monthly free product recovery and monitoring was recommended until free product is less than 0.01 ft for 6 consecutive months.

Current Status

Product is recovered through manual hand bailing and periodic AFVR events. Monthly free product recovery and monitoring and quarterly reporting is conducted. As of the first quarter of 2008, free product was measured in three wells (MW-7, MW-A, and MW-B) at a thickness of 0.21 ft (**Figure 4-35**). Monthly free product recovery and monitoring and quarterly reporting will continue until the remedial endpoint for free product (0.01 ft), is met for 6 consecutive months.

Proposed Activities for FY 2008

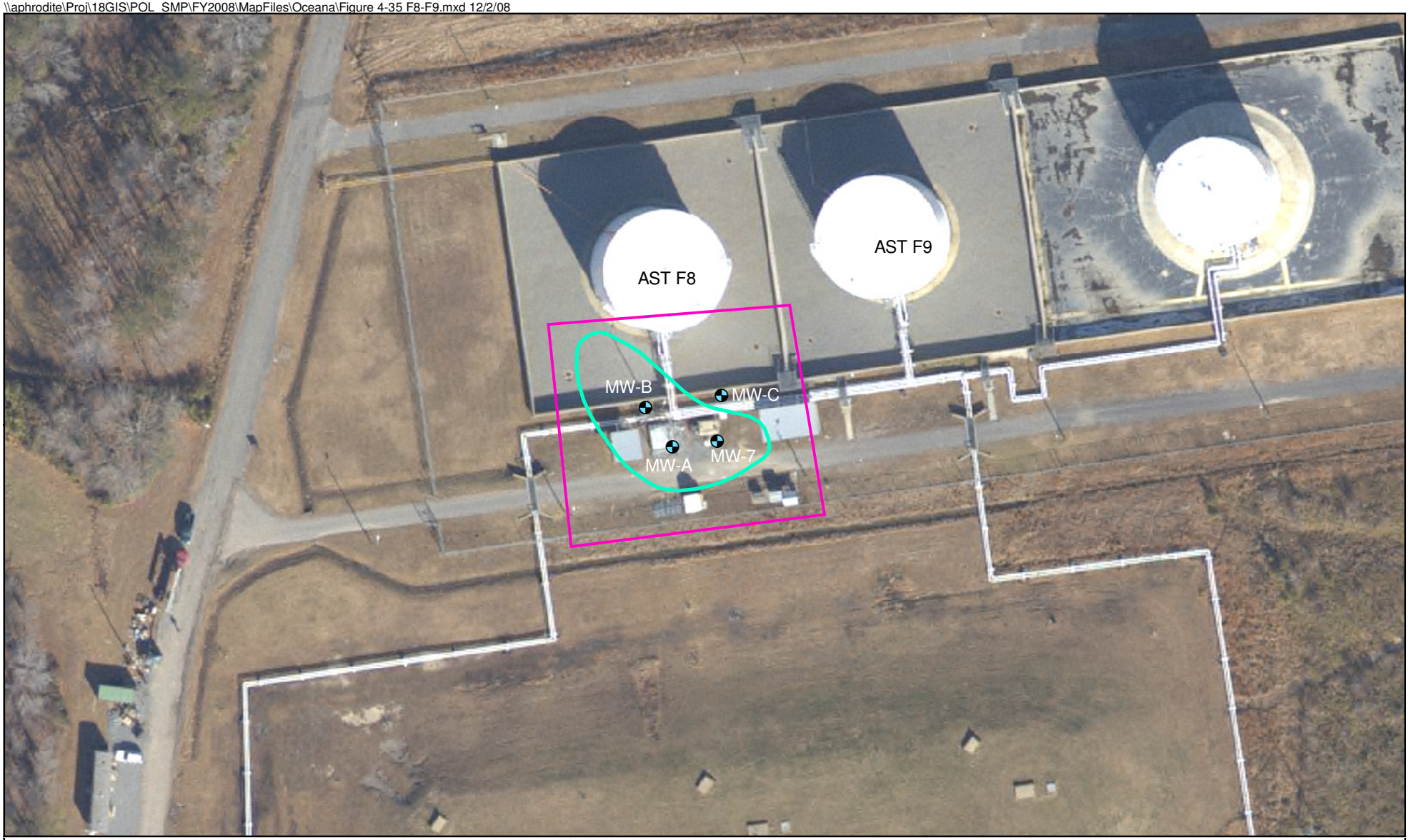
Monthly free product monitoring and recovery and quarterly reporting will continue in FY 2008.

Optimizations/Recommendations

Lithology at the F8/F9 site consists of silty sand with some clay lenses. Hydraulic conductivity at the site is approximately 10^{-4} cm/s. Product recovery is conducted using manual bailing and averages around 5 gallons per quarter. Free product is present on the water table at three locations at thicknesses of up to 0.21 ft. However, product thickness has decreased considerably since 2007 when 0.87 ft of product was measured. Product monitoring should continue to determine if the endpoint can be met without additional action. If free product thickness does not decline, it is recommended that an oxygen source

such as RegenOx, ORC®, or BIOX® be injected to chemically destroy and/or biologically degrade the product. Costs associated with this alternative is estimated to be between $100.000 and $150,000.

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\Oceana\Figure 4-35 F8-F9.mxd 12/2/08



Legend

- Monitoring Well
- Free Product Plume (March 2008)
- Site Boundary

* Direction of groundwater flow varies due to clay lenses.

N
W E
S

0 40 80
Feet

Figure 4-35
F8/F9
NAS Oceana
Virginia Beach, Virginia

CH2MHILL

4.36 Tank MT-3

The Tank MT-3 site is located at the Navy Range, Dare County Target Complex in Stumpy Point, North Carolina to the northeast of the control tower of an active bombing target range. The site is surrounded by a drainage canal. Tank MT-3 was a former UST reportedly used to store unleaded gasoline fuel for vehicles and equipment on site . The UST was excavated in June 1993. Three active ASTs are located in the vicinity of the former tank basin. The ASTs store diesel fuel and gasoline. A site map, including the location of the former UST basin, existing ASTs, and existing monitoring wells, is provided as **Figure 4-36**. Groundwater flows to the southwest across the site.

Comprehensive Site Assessment Report (Richard Catlin & Associates, Inc., 1994)

The site assessment included the installation of monitoring wells and soil and groundwater sampling and analysis. The results indicated the presence of BTEX, TPH, chromium, lead, and silver in groundwater. No free product was detected in any of the site monitoring wells and no petroleum contaminated soils were identified. Due to the low concentrations of contaminants and remote location of the site, it was recommended that no action be taken at the site with the exception of continued groundwater monitoring.

CAP (Richard Catlin & Associates, Inc., 1995)

The corrective action included continued quarterly monitoring until remedial endpoints (1 µg/L of benzene, 0.015 µg/L of lead, and 0.018 µg/L of silver) are met.

Current Status

Annual monitoring will be conducted until the remedial endpoints are met.

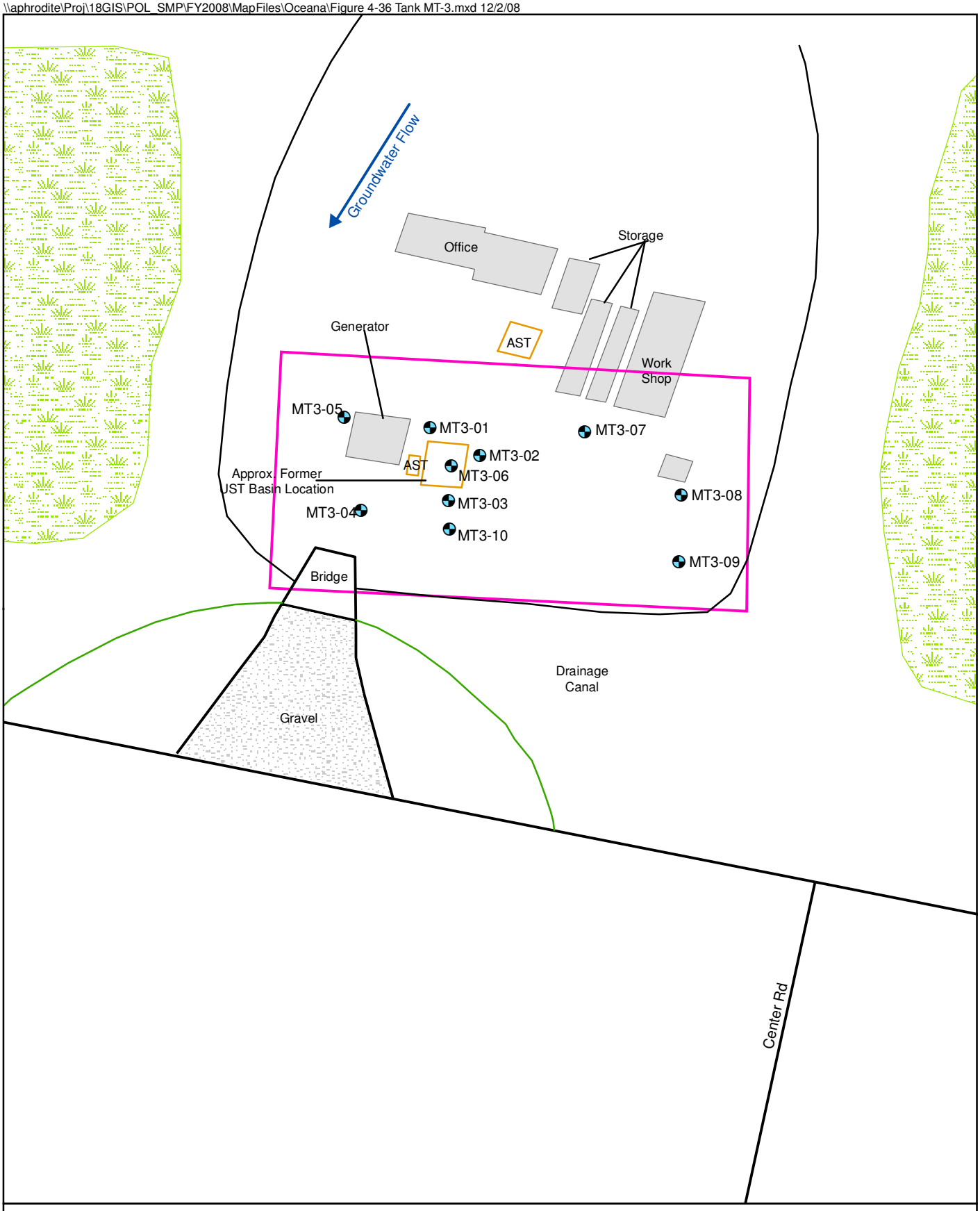
Proposed Activities for FY 2008

Quarterly groundwater analytical monitoring and reporting will continue in FY 2008.

Optimizations/Recommendations

The Tank MT-3 site is characterized by relatively low permeability silty and clayey sands to the maximum explored depth (20 ft bgs). The average hydraulic conductivity is 1.75×10^{-3} cm/s, and the depth to water is shallow (4 to 9 ft bgs). Available historical records indicate measurable LNAPL has not been detected at the site. Benzene concentrations exceed the remedial endpoint specified in the CAP (1 µg/L) in several monitoring wells. The rate of natural attenuation appears to be slow, which is often the case with anaerobic degradation of BTEX at petroleum sites. Use of a passive oxygen releasing compound in wells impacted above remedial objectives is recommended (such as the Regenesis ORC® sock). Depending on results of ORC®, more aggressive measures, such as a small scale biosparging system or oxygen diffusion system, may be needed to expedite site closure. The estimated cost of ORC® socks for 1 year is $5,000.

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\Oceana\Figure 4-36 Tank MT-3.mxd 12/2/08



Legend
- Monitoring Well
- Site Boundary
- Building

N
W E
S

0 40 80
Feet

Figure 4-36
Tank MT-3
NAS Oceana
Stumpy Point, North Carolina

No Freed Product Plume Detected (March 2008)

CH2MHILL

4.37 NEX Gas Station, PC# 93-0990

The NEX Gas Station at NAS Oceana began operation in 1973 (**Figure 3-7**). Two grass-covered 20,000 gallon USTs (Tanks A and B) were installed to store gasoline, one 550 gallon UST (Tank C) was installed for waste oil, and one 10,000 gallon UST (Tank D) was installed. In 1982 and 1990, leak tests were performed on Tanks A, B, and D and the associated piping. Both tests identified leaks in a pipeline leading from Tank A and the line was excavated and replaced. Additionally, a release occurred from Tank A in 1987 and the tank was repaired. Tanks A, B, and D were replaced in March 1995. A site map, including the location of the USTs, treatment system, and existing monitoring wells, is presented as **Figure 4-37**. Depth to shallow groundwater at the site ranges from 4 to 7 ft bgs.

CAP (O'Brien and Gere, 1991b)

A SI was conducted to support the CAP and included the installation of monitoring wells, soil and groundwater sampling and analysis, and aquifer testing. The results indicated the presence of TPH in soil and free product, BTEX, and TPH in groundwater. The risk assessment did not identify unacceptable risks to human health or ecological receptors based on current land use. The corrective action consisted of a product recovery system and soil VE system. Remedial endpoints identified included reducing free product to less than 0.01 ft and reducing soil TPH concentrations to less than 100 mg/kg. The CAP required monthly monitoring of free product thickness.

CAP (ES&E, 1995b)

A dual phase extraction pilot test was conducted to evaluate cost-effective remedial technologies for the site. Analytical data identified the presence of benzene, lead, and free product in groundwater. The corrective action identified was a combination of total fluids vacuum extraction and soil VE. Monitoring requirements included monthly free product measurements and recovery at MW01 through MW07, and annual monitoring for benzene at MW12 and MW13 until the remedial endpoint for free product (0.01 ft) has been met for 6 consecutive months.

The CAP Permit also identified remedial endpoints at MW12 and MW13 for benzene (29,000 µg/L), toluene (36,000 µg/L), ethylbenzene (2,500 µg/L), total xylenes (15,000 µg/L), and lead (300 µg/L).

Current Status

Product is recovered through manual hand bailing and periodic AFVR events. A total fluids vacuum extraction and soil vapor extraction system operated until January 2004 when it was shutdown for a remedial effectiveness evaluation. Monthly free product recovery and monitoring and quarterly reporting is conducted. As of the first quarter of 2008, free product was measured in two wells (MW-01 and MW-03) at a thickness of 0.26 ft (**Figure 4-37**). Since 1998, a total of 48,000 gallons of free product has been recovered from on-site remedial activities. Monthly free product recovery and monitoring and quarterly reporting will continue until the remedial endpoint for free product (0.01 ft), benzene (29,000 µg/L), toluene (36,000 µg/L), ethylbenzene (2,500 µg/L), total xylenes (15, 000 µg/L), and lead (300 µg/L) are met for 6 consecutive months.

Proposed Activities for FY 2008

Site closure report should be filled with the VDEQ. Monthly free product monitoring and recovery and quarterly reporting will continue in FY 2008.

Optimization/Recommendations

The NEX gas station site is characterized by relatively low permeability silty clay to a depth of about 7 ft bgs, overlying fine to medium grained sand to the maximum explored depth of about 25 ft bgs. The average hydraulic conductivity of the sands is fairly high, 1.41×10^{-3} cm/s, and the depth to water is shallow (6 to 8 ft bgs) As of March 2008, one well (MW03) contained measurable free product of 0.26 ft. and BTEX and lead were not detected above remedial endpoints. However, product thickness has decreased considerably since 2007 when 1.03 ft of product was measured. Product monitoring should continue to determine if the endpoint can be met without additional action. If free product thickness does not decline, it is recommended to use a passive oxygen releasing compound (such as the Regenesis ORC® sock) in wells impacted above remedial objectives is recommended to expedite site closure. The estimated cost of ORC® socks for 1 year is $5,000.

\\aphrodite\Proj\18GIS\POL_SMP\FY2008\MapFiles\Oceana\Figure 4-37 Gas Station.mxd 12/2/08

Legend

- Monitoring Well
- Free Product Plume (March 2008)
- Site Boundary

N
W E
S

0 40 80
Feet

Figure 4-37
NEX Gas Station
NAS Oceana
Virginia Beach, Virginia

CH2MHILL

SECTION 5

Navy Land Use Planning

Under the IR Program, each facility has developed a GIS that identifies all areas of past or present environmental concern. The attached CDs provide maps and GIS layers in Arcview® for the POL sites, the monitoring well locations, and extent of groundwater contamination. This information will be made available to facility planning personnel for environmental considerations during operational planning and decision-making. In the event Navy activities will influence the areas outlined or highlighted on the CD, the NAVFAC Regional Project Manager should be consulted:

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SECTION 6

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